



us coast guard band star spangled banner - Bing.mht



The Star-Spangled Banner - Oregon National Guard Band plays the U.S. National Anthem.mp4

Welcome to volume Three the FACTs of how the S.E.G. was invented.

Professor John Roy Robert Searl own words about his life and work.

Most of his success was by accident, by being in the right place at the right time.

Pages 410 to 507.



UNCLASSIFIED

EDITION ONE.
VOLUME THREE.



Document for the introduction
Mathematics used in the S.E.G.

Volume THREE
Requirements under international Law

Approved by Secretary General.
And published under his authority.

First Edition – 2014

SEARL AEROSPACE INC

WARNING!

Please note that these books are fully copyright protected.

They are filed at the:

Legal Deposit Office: the British Library: Boston Spa: Wetherby: West Yorkshire LS23 7BY.
Tel: 0937 546268. ENGLAND.

Also at the libraries of the:

**Universities of Oxford and Cambridge.
The National Library of Scotland.
The Library of Trinity College, Dublin.
And the National Library of Wales.**

This also includes the book of John Thomas.

The music written for me: by Barry Stroller is also protected.

This notice is to inform you that no part thereof can be reproduced without authority in writing from Professor Searl to do so.

Professor John Roy Robert Searl.



Searl agrees that everything conceived by man is impossible until someone say it is possible, and only then is the impossible made possible. The S.E.G. Searl agree has taken centuries to reach the possibility to manufacture it, which is the task of Searl Global Technologies to organize where to mass produce it and how to mass produce it, there are a number of legal units being set up for that task, the main part should be done in San Diego, California, USA. Sorry China that your legal side has failed to be completed so far to date. Still another legal paper: to get sign. What in Holland again.


2015: If Tony Blair was now Prime Minister of UK; would he now support full mass production of the SEG?

If we gave an SEG to Tony Blaire he could keep his promise in cleaning up the air – Searl wonder if he would?

Problem, the SEG does not produce much money in taxes –that is just one problem, but a large one.

Acting Sectary General: to the above name company.


SECRETARY OF STATE




**CERTIFICATE OF EXISTENCE
WITH STATUS IN GOOD STANDING**

I, ROSS MILLER, the duly elected and qualified Nevada Secretary of State, do hereby certify that I am, by the laws of said State, the custodian of the records relating to filings by corporations, non-profit corporations, corporation soles, limited-liability companies, limited partnerships, limited-liability partnerships and business trusts pursuant to Title 7 of the Nevada Revised Statutes which are either presently in a status of good standing or were in good standing for a time period subsequent of 1976 and am the proper officer to execute this certificate.

I further certify that the records of the Nevada Secretary of State, at the date of this certificate, evidence, **SEARL AEROSPACE CORPORATION**, as a corporation duly organized under the laws of Nevada and existing under and by virtue of the laws of the State of Nevada since July 13, 2010, and is in good standing in this state.



IN WITNESS WHEREOF, I have hereunto set my hand and affixed the Great Seal of State, at my office on November 20, 2014.



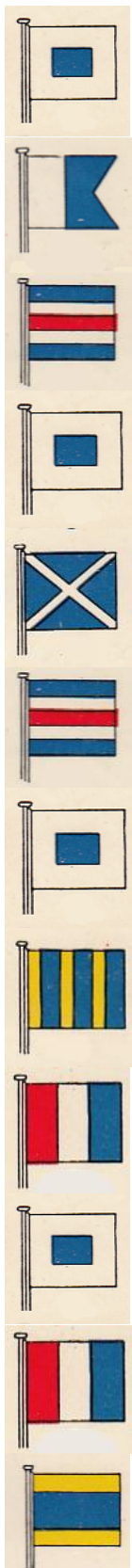
ROSS MILLER
Secretary of State

Electronic Certificate
Certificate Number: C20141120-2525
You may verify this electronic certificate
online at <http://www.nvsos.gov/>

This certificate is proof that Searl Aerospace is a legal company and is conforming within the legal laws of the said State. I, Professor John Roy Robert Searl, hereby hold the position of Secretary General, to see that this company operates within the laws of this State; thereby continue to hold good standing within the said State. I shall try to get industry back on its feet within the USA in mass production of this power unit.

Page 413©

Searl knowledge: 1946-1968: Legal: SEARL NO: 013787346: Legal: SEARLE NO: 013787451.



We are here
to stay.

Professor John Roy Robert Searl: Author Reg: 1 898827: acting as Sectary General for Searl Global Technologies group of divisions. We are a Legal company operating under legal rules at all times.

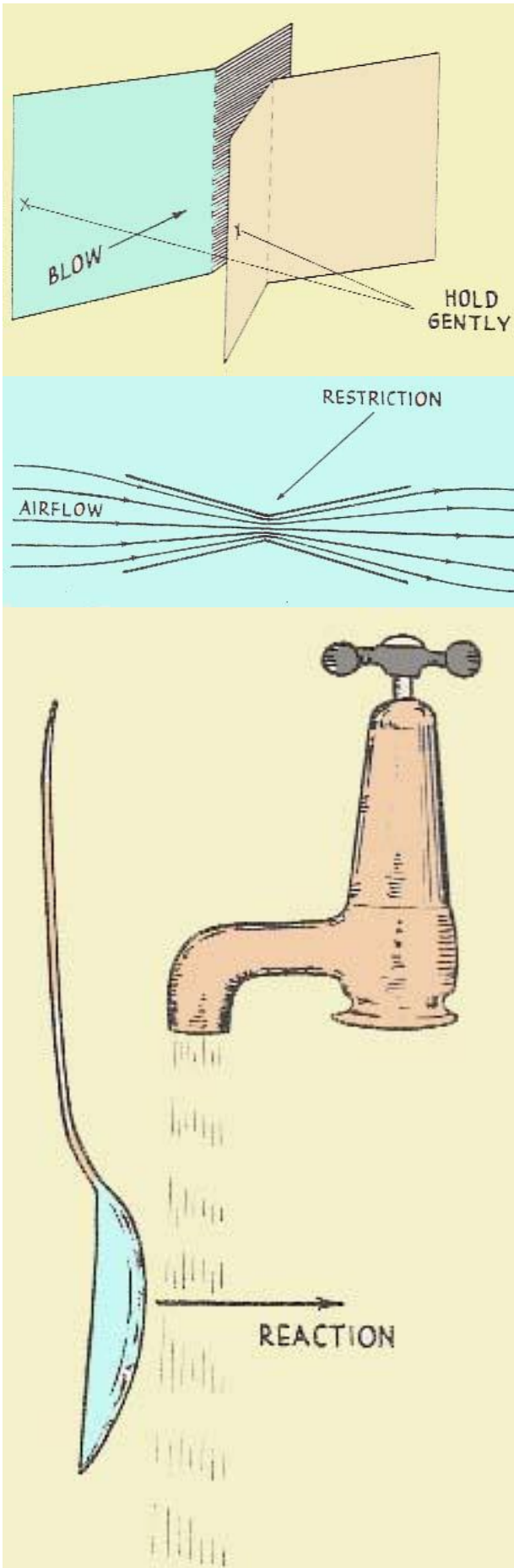
AIRFLOW EFFECT:

Figure 1: Searl states that the unexpected happens to air: or for that matter any fluid such as water. Or: the S.E.G., and I.G.V. when it is made to flow around objects of a certain shape. An interesting experiment with 2 sheets of stiff paper bent across the middle will illustrate this. By holding the 2 pieces as shown in Figure 1 with their creases approximately one inch apart they can be made to close together by blowing hard between them.

Figure 2: In effect the impossible would seem to have happened. Searl says that the explanation is as follows: the air is forced through a passage which progressively becomes narrow. In order to pass through the restriction it must increase its speed: Figure 2. Searl will continue with this discussion below these illustrations.

Figure 3: When held in a jet of water the back of the spoon reacts in a similar manner to the bent paper in Figure 1. It is a law of nature that when moving fluid is forced through a restriction in this way, the increase of speed is accompanied by a drop in pressure. It is this drop in pressure between the sheets of paper which causes them to close together.



Searl knowledge: 1946-1968: Legal: SEARL NO: 013787346: Legal: SEARL NO: 013787451.

U.S. Department of Transportation: Federal Aviation Administration: FAA-CT-8080-1C.

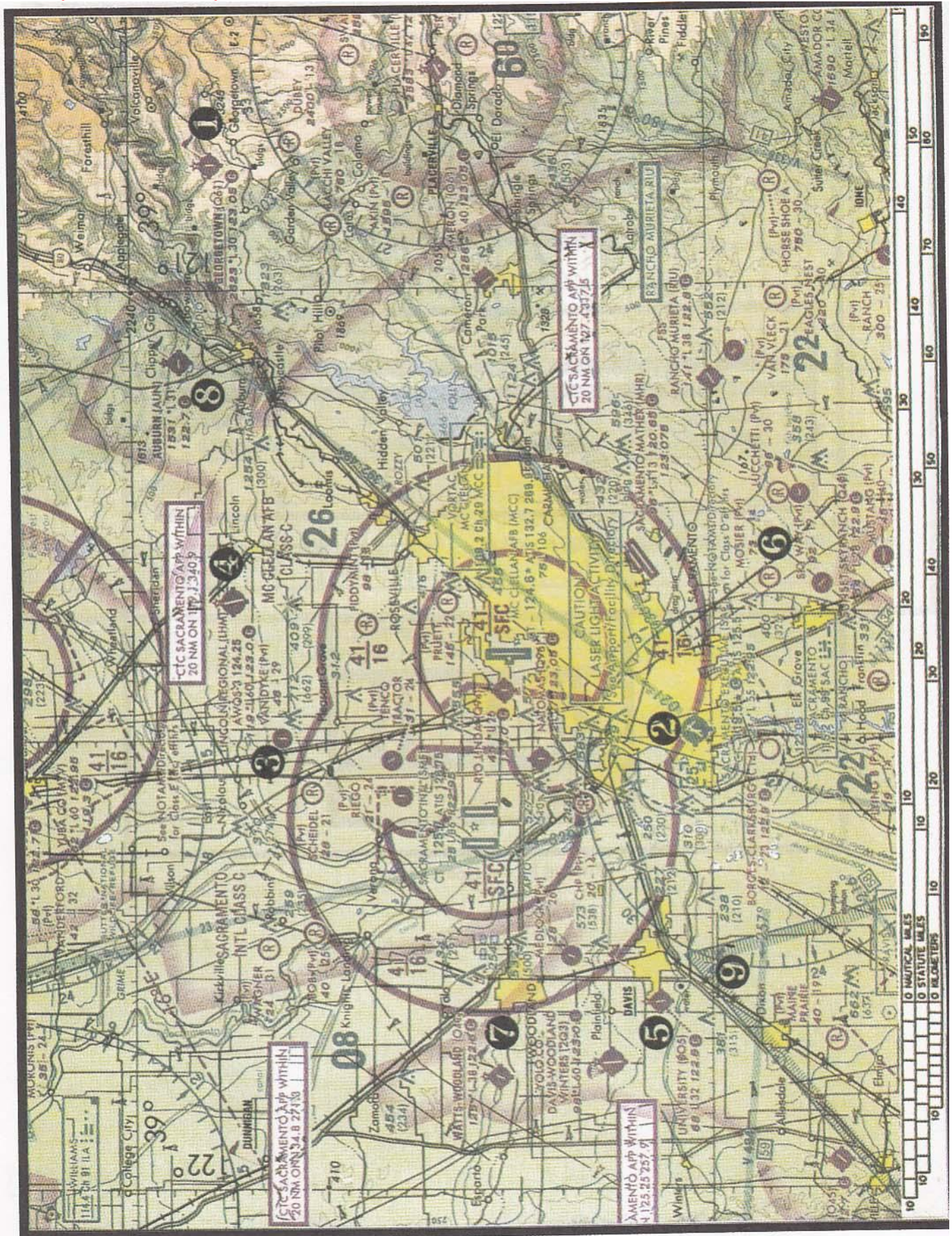


Figure M52: Sectional Chart Excerpt: To be a **pilot** you sure need to be able to read a map.

I pass my **map navigation test** at all **3 points without error**.



Here is Searl with his trusted **new member** of the **Israel team**, at his **home** and first one to greet me was his **dog**. 5 minutes later rest of the family met me. I was indeed **highly welcome**.

Searl was explaining strange effects of airflow, and Searl dealing with the similar effects can be made with a large tablespoon. **Figure 1.3**: show that if this is held downwards and brought into contact with a running tap, the water will pull the spoon into the jet instead of pushing it away. Searl states that here again the fluid: **in this case water**: is made to flow around the contours of the spoon, causing a **decrease in pressure**.

Searl states, that no matter how strange it may seem, the **airflow** does the same with the **roller sets** in both the **S.E.G.** and the **I.G.V.** The **pressure** will **reduce**, thus the **velocity** will **increase** to its **ideal speed**, until such time a load is demanded, then and only then does the roller sets **velocity increase** to meet demand. The **decrease pressure** will **leak** out of the **craft**, and there after the **S.E.G. unit** will **function** almost in a **vacuum state**, agree, once in **space** it would be a vacuum.

Searl accepts that there is much more to learn, that is what keeps him kicking by searching for that unknown part which appears to be missing that links all things together. Searl ask how many others have searched unsuccessful for that **unknown particle** or **wave**.

Searl knowledge: 1946-1968: Legal: SEARL NO: 013787346: Legal: SEARLE NO: 013787451.

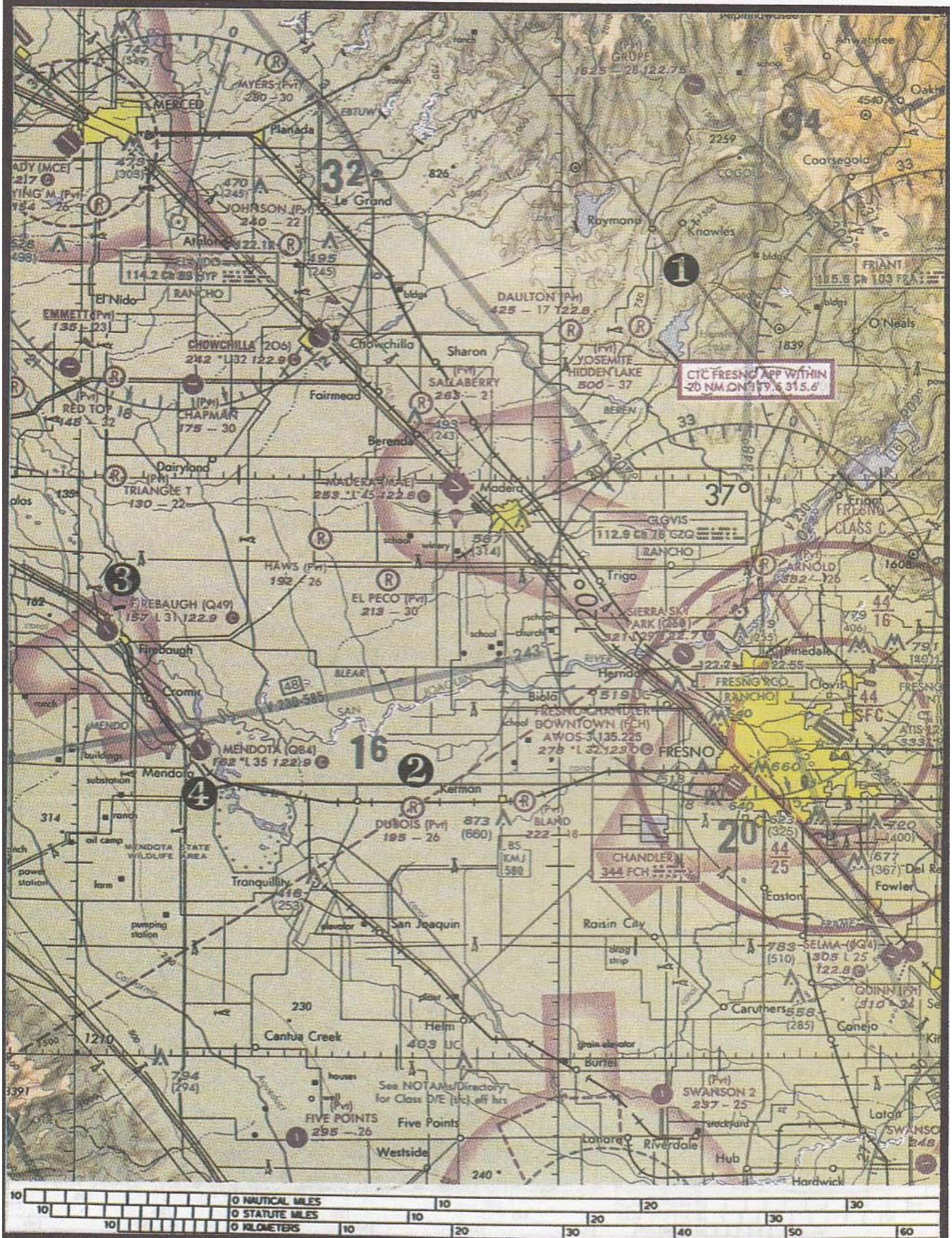


Figure M53: Sectional Chart Excerpt: Pilots must be able to understand these maps.

U.S. Department of Transportation: Federal Aviation Administration: FAA-CT-8080-1C.

Searl knowledge: 1946-1968: Legal: SEARL NO: 013787346: Legal: SEARLE NO: 013787451.



Searl standing on top of the almost completed **Demo One I.G.V.** at **Star Port Earth One** for the **BBC 10 hour's interview**, that stated that it was only **4 feet** of the **ground**, even so, it was not falling over weighing around **10 tons**. It was **constructed** to **meet Civil Aviation Authority rules**. Searl doubt if those exciting days of **1968** will ever return. It was to prove the **experts wrong**, as they stated that it would not stand, let alone fly. It was a **scale model** of Star Ship Ezekiel MK V, whose diameter was to be 1000 Metres, the centre being equal to **19 floor level of flats**, weighing **2000 tons**. The **media termed it a city on legs**. The **actual technical diagram** is on show at the **SMI lab**, which surprises visitors at the **length of it**, all **worked out by hand of Searl**. That diagram **equals** every **5 millimetres square = 1 metre square** of the **actual Star Ship Ezekiel MK V**. The model **Demo One** was to **test** and **prove** to the **scientists they were wrong**, and it **proved Searl correct**.

Continue from page 227:

The team at SMI are slowly unpacking Searl equipment, amongst the gear was a photo album containing a load of photos of the **construction of Demo One**. That photo above is from that album; was scanned in here as shown above which is not a **computer illustration**, but the **real thing** with lots of **material bills paid**. **1968** was still just within the **cost** to **construction**, today, that would be a **problem – MONEY!**

Searl ask, are you now wishing you were there, helping to **create Searl second dream**. You may not have **invested** in the **Shutter**; but you still can **invest** on the **future I.G.V. research**. The chose is yours.

Searl knowledge: 1946-1968: Legal: SEARL NO: 013787346: Legal: SEARL NO: 013787451.

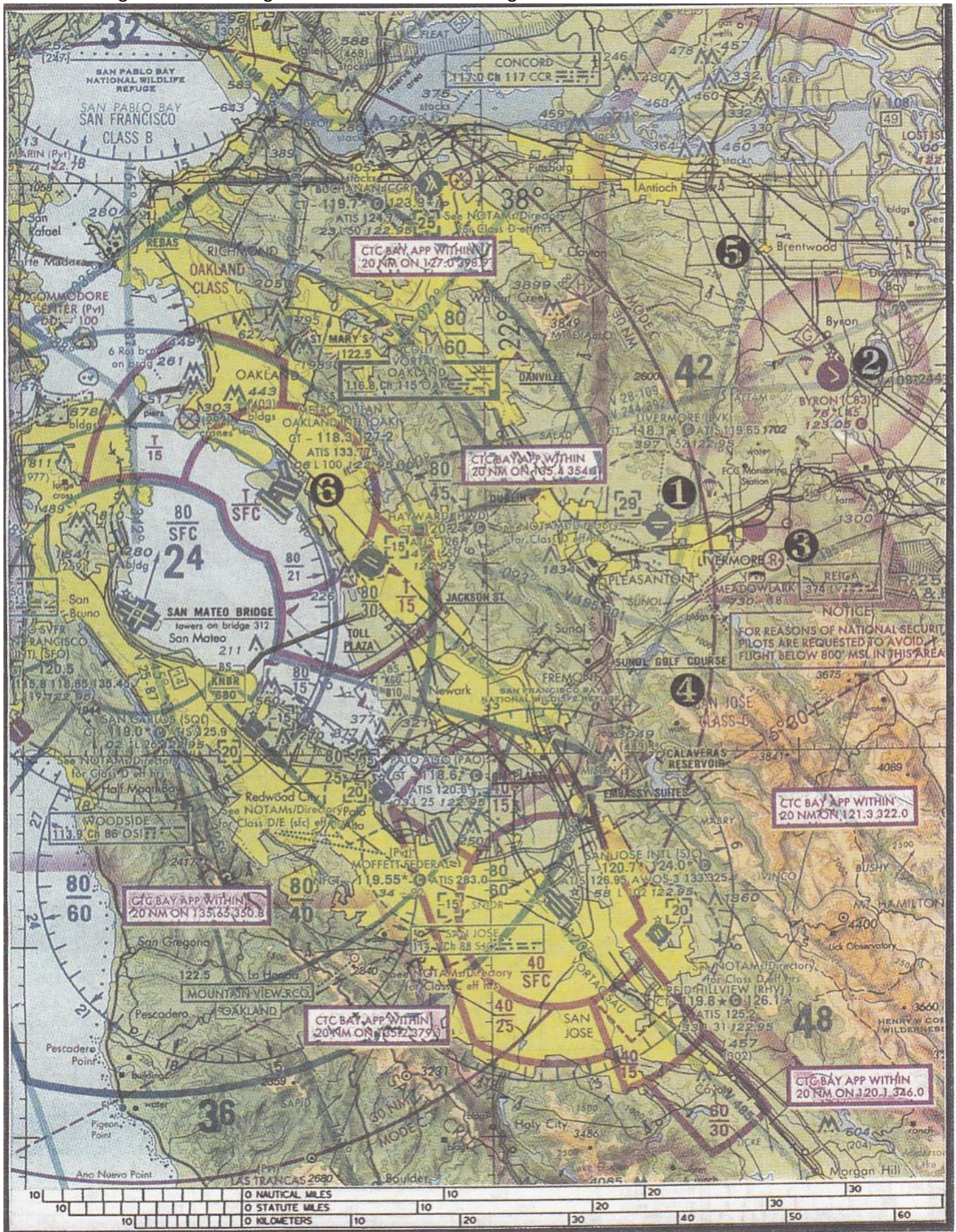


Figure M54: Sectional Chart Excerpt: Searl again say that must understand these charts. U.S. Department of Transportation: Federal Aviation Administration: FAA-CT-8080-1C.



Searl on a **4 week lecture tour of Australia**, this is one family whom Searl stayed with for one week. The lady here felt sorry for me with all my pockets stretching at their maximum with money I had just won in the gambling house **Steve** and **John Thomas** took me to, who kindly replace that weight with **paper money**, for my relief, more so for my pockets. Here we are celebrating to the success of the tour so far; forming **new units** to develop the **S.E.G.** After 6 months later, the old problem re-appeared; one person wanted to control the whole of **Australia**, and unfortunate **John Thomas** was telling them all that they had to communication through him, which **turned them off funding me**. This is a **major problem** which has always stopped the success of the **S.E.G.** reaching the marketplace. The question Searl asks; will that happen again, as it nearly did in **February 8th 2014**, by **STI**. That is why I had to rush to the States to stop it. That is why I am still here to take control of operations.

Searl has been showing you **FACTS** of both the **mathematics** which he had to use in the work and the differences of air laws of the **CAA** in the UK, and the **FAA** here in the **U.S.A.** Searl has always claimed that the **S.E.G.** should have been on the **marketplace** in **1968**. The work was getting **maximum publicity**, unfortunate that is what fired off the **greed** and **ignorance problem** which stopped the **S.E.G.** from reaching the **marketplace**. Then again, same problem in **2003**; which was the second option, once again the new team went down the same road, which **block** the **S.E.G.** to reach where it belong – the **marketplace**. You **great experts** on the **internet kick the wrong man, instead of the right ones**.

Searl knowledge: 1946-1968: Legal: SEARL NO: 013787346: Legal: SEARL NO: 013787451.

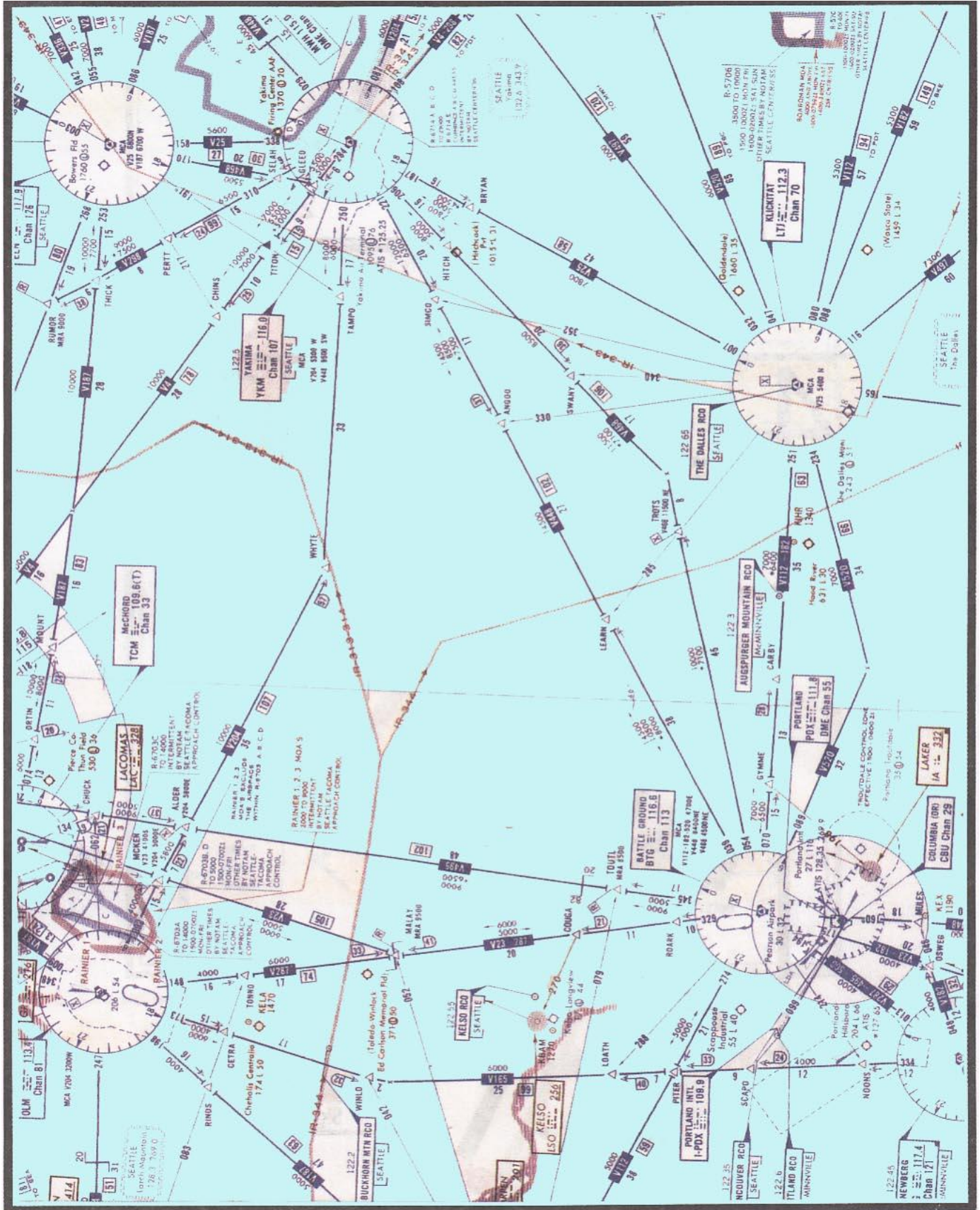


Figure M55: En Route Low Altitude Chart Segment: All pilots of the I.G.V. must understand such charts, requirement of the FAA in the U.S.A.

U.S. Department of Transportation: Federal Aviation Administration: FAA-CT-8080-1C.

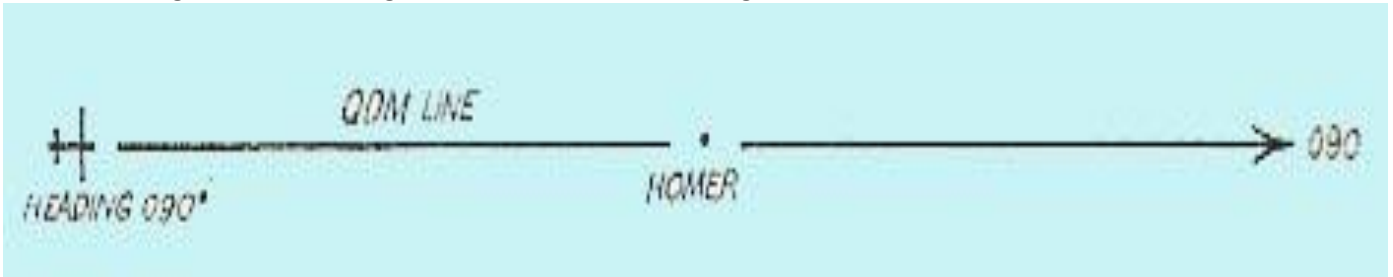


Figure H1: Searl had to **learn** to **understand** the **procedures** of **navigation**, even though the **I.G.V.** will **require entirely different system of operations**. Requirement: of the **CAA**.

Searl points out that before **plunging enthusiastically** into the **study** of **Radio Aids** to **Navigation** you must make sure that you can **fly** your **conventional aircraft** well enough to use such aids. Searl makes clear that no doubt you can **take off**, **climb**, and do **rolls**, **loops** and **spins**, **approaches** and **landings** with **no troubles** at all: but that has nothing to do with **navigation**! Searl stays, can you keep a **straight course**, a **steady airspeed** and a **constant height** for **long periods of time**? Yes, Searl can! Can you **turn accurately at rate 1**, yes Searl can! **Climb** and **descend** at **specified rates** of **climb** and **descent**? Yes, Searl can! These are the **requirements** of **navigation** and therefore the requirements when using **radio aids** for **navigation**. Searl says be sure then that you can do these things and cope with the **flight instruments** before attempting to add others to their number. **Searl remind you that you are seeing what he had to know – not just knowing it – but understanding it by actual demonstration. I agree with Richard Branson, that people spread lies around; they have no idea of what they are saying. They do far more damage, than the pollution of today does to the planet.**

Radio Aids in General:

Searl states: let us try to put **Radio Aids** into their proper perspective as **aids** to **navigation**. **Searl reminds you that he is writing about his time not of your time of today, which yet Searl has to study the new approaches to navigation aids. If you think that he is too old, you better start to re-think again.** Searl says that no doubt you will already carried out one or two cross country flights and will have learned some basic principles of navigation. Yes, Searl has done that including overseas airport in Holland and France. To fly from **A** to **B** you need two pieces of information. Searl agrees with that, which is the law of the squares. Searl ask if you know what they are **Flowerbower**? Searl states that the first is the **Magnetic Track from A to B** and two, **Time it will take to fly from A to B**, Searl points out that if you fly that required track for the required length of time than the **conventional aircraft** must move from **A and arrive at B at the end of that time**. Searl says that unfortunate there are things which will prevent it from doing so. Searl points out that the **wind** will blow the conventional aircraft off track and also make a difference to the timing. Neither your flying nor the instruments you use are **100 per cent accurate** and so the conventional aircraft will not maintain the **required track**. Searl will take a break to allow you to understand what he is stating; which does not apply to the **I.G.V.**; as it **flies vacuum technology** and not air!



Figure D57: Sign: Which FAA expects pilots to understand – do you Flowerbower?



Figure D.58: Airport Diagram and sign: FAA requirement.



I may return, as I rise from the ashes of 1968. Watch our site for news.

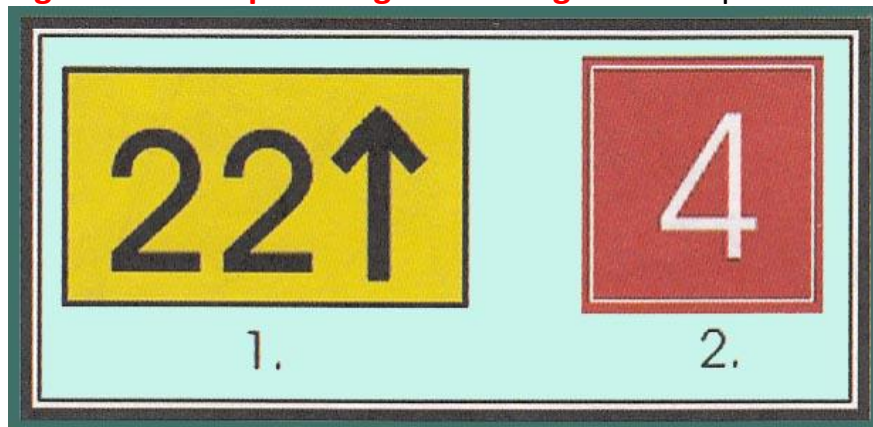


Figure D.56: Two signs: FAA Requirement Flowerbower.

Searl is just correcting information on the web, from **experts**, upon his **education**. Beware my equipment has arrived here in the **States** it will take time to re-construct as we are busy.
Page 424©

Searl knowledge: 1946-1968: Legal: SEARL NO: 013787346: Legal: SEARLE NO: 013787451.

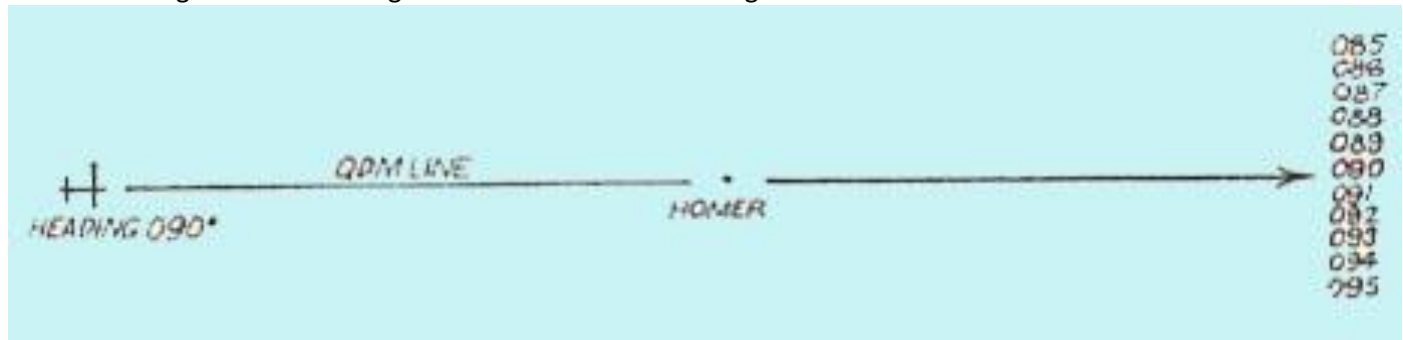


Figure N2: CAA: requirement of pilot understanding of the use of navigation equipment.

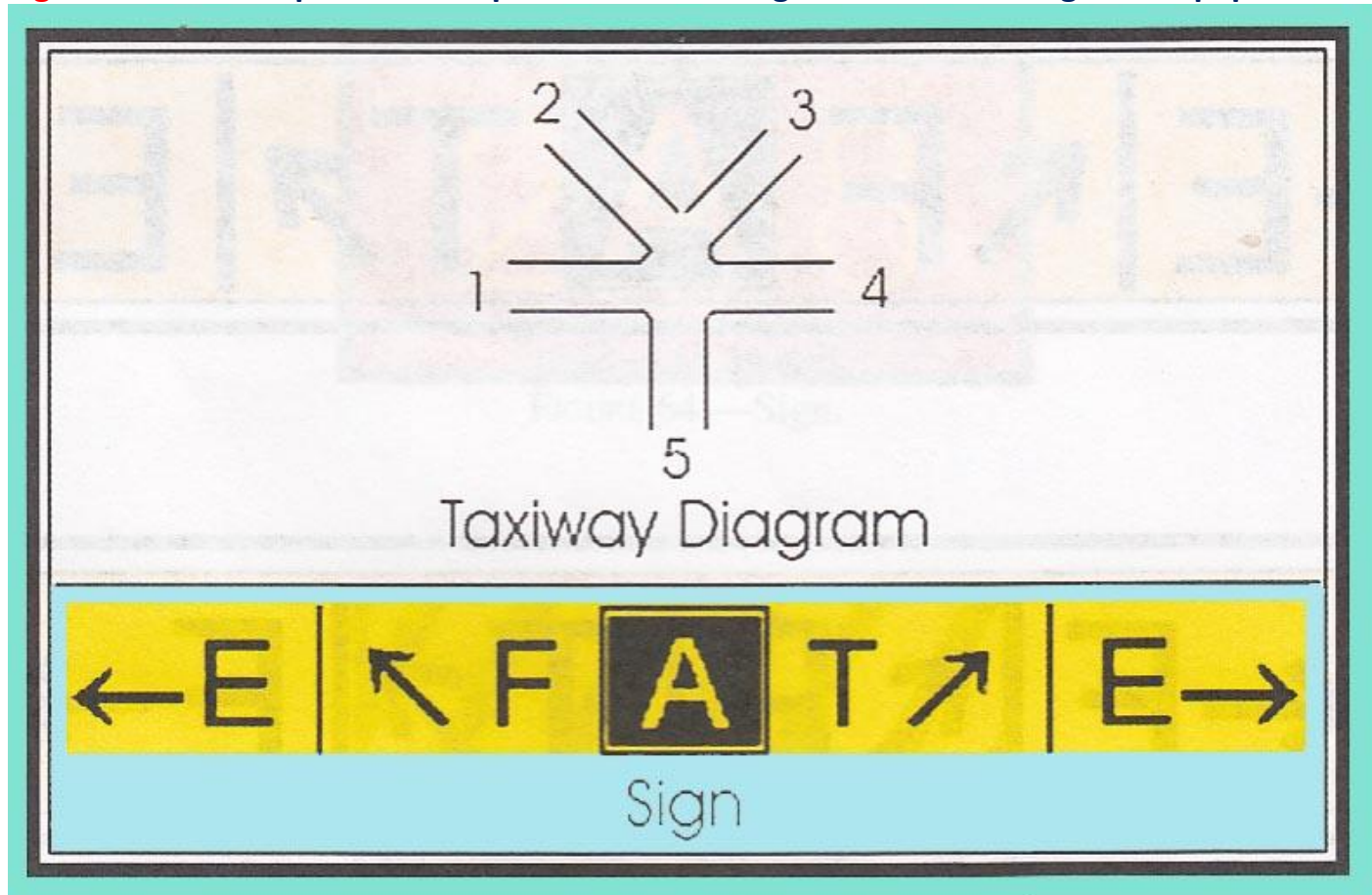


Figure D59: Taxiway Diagram and Sign: Which pilots must understand? Searl does! Remember this applies only to **conventional aircraft**, **not to the I.G.V.** Where a different sets of **rules** must be created for its **operations**. As Searl has stated that it is a **Vertical take-off and Vertical landing (VTVL) vehicle**. It is not an **aircraft** in the **sense of conventional aircraft**; which we accept of today. It is a **new approach to flight in or out of the Earth's atmosphere**. Searl states that surely that makes it a **space craft**?

Searl states that no matter what happens to bring this baby home; it still requires **mathematics**, to be able for it to transit from the **impossible** to the **possible domain**. Given **time**, it will happen, Searl will try to do his best, to **reduce that time factor** to the **marketplace**. What do you think **dear Flowerbower**? Calling people **liars** on the **radio**, when you have no idea what you are saying, **naughty boy**, bend over and you get a surprise to wake you up to **reality**. **I sure love you Flowerbower** for bringing people to my web sites.



Figure D60: FAA requirement for pilots.



Figure P61: SIGN: FAA requirement for pilot's information of operation.



Figure P62: Sign: FAA requirement for pilot's information of operation.

U.S. Department of Transportation: Federal Aviation Administration: FAA-CT-8080-1C.



Figure 1.64: Sign: FAA requirement.

U.S. Department of Transportation:

Federal Aviation Administration:

FAA-CT-8080-1C.

Searl works with the authority.

Page 426©



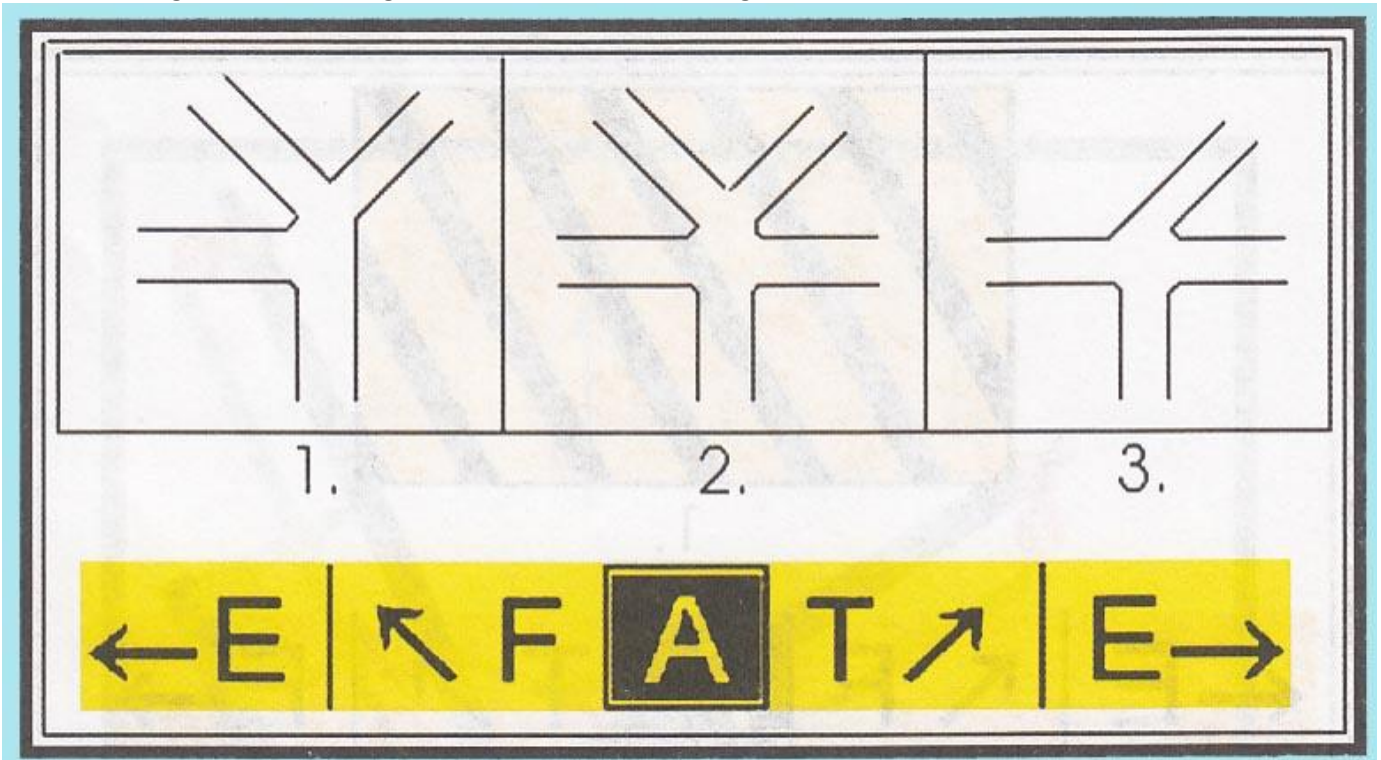


Figure 1.63: Sign and Intersection Diagram: Pilots of conventional aircraft need to understand the meaning of such signs. I.G.V pilots should know them in case they need to fly a conventional aircraft. This is a FAA expectation of a pilot.

U.S. Department of Transportation: Federal Aviation Administration: FAA-CT-808-1C.

Searl will now continue from where he left off.

Searl says that an allowance can be made for the forecast wind and we can fly as accurately as possible all of which help to keep the aircraft near to the require track. On your cross country flight you used a map and ground reference points in order to correct any position error and to keep as close as possible to your track. Searl explains that the map is useful only when ground can be seen and when you are flying at a convenient height. Searl clearly accepts that radio aids can replace the map by enabling him to discover and correct position errors whether or not the ground can be seen and almost irrespective of height.

Searl has to be absolute honest here, as all students start by legal law on what is term VFR. Which: means they had to fly below cloud at all times. Unfortunate for Searl instructor: Searl had a slightly different interpretation of that law, which to Searl mind was simple logic that if he kept his height and course during the short time which it took to pass through that cloud, there was no problem. Unfortunate for Searl that was a problem for his instructor. Who upon landing at base complained to Ian the test examiner what Searl had done? But instead of grounding Searl, he replied, He came out of cloud the right way up. Ian observed when he was with me on check flights that clearly searl was flying by instruments instead of VFR, but he was impressed by Searl determination to fly, that he closed his eyes, as he realise that Searl was safe in flying. And Ian fully understood Searl need for that license. Ian gave Searl a free hand to get the hours of practice which he needed.



Yes, I am still in **Israel**, watching you, watching me, watching you – **Flowerbower** – your statement on **radio that I will soon be dead**, is not a statement which an **intelligent expert** would make. That informs me of precisely what you are. My **doctor** and **nurses laugh** at that, and say you are in **good shape** for **another ten years** – **Flowerbower**. Will you still be around by then?

Searl is aware that the more he tries to do well, the **greater** is the **hate** which it generates, and the **law** of the **square is absolutely true**. All that Searl can do is to **carry on the good work regardless**. Searl accepts that so useful are these aids in enabling a good track to be maintained that special maps and charts have been drawn highlighting the **radio beacons** and the **various tracks** between them. To those **inventors** Searl **give thanks to**; no doubt they too were **laugh at** for **such ideas**, who knows, as it appears to be a **common fault** of **man**. Searl does appreciate that some **aids give information** with **sufficient accuracy** to enable approach tracks to be maintained right down to the touch-down point on a runway. **NOTE**: that Searl never **used these aids**, just his **brain** for **touch-down** in **those days**, but today, if he **returns to flying** he will be **delighted to use these aids**.

Searl points out that nevertheless it must always be borne in mind that a **conventional aircraft flying** at **129 knots** in an **Easterly direction** will **travel 2 miles** in that **direction every minute**. This **means mathematics** had to be **used to make that claim**.

Page 429©

Searl knowledge: 1946-1968: Legal: SEARL NO: 013787346: Legal: SEARLE NO: 013787451.

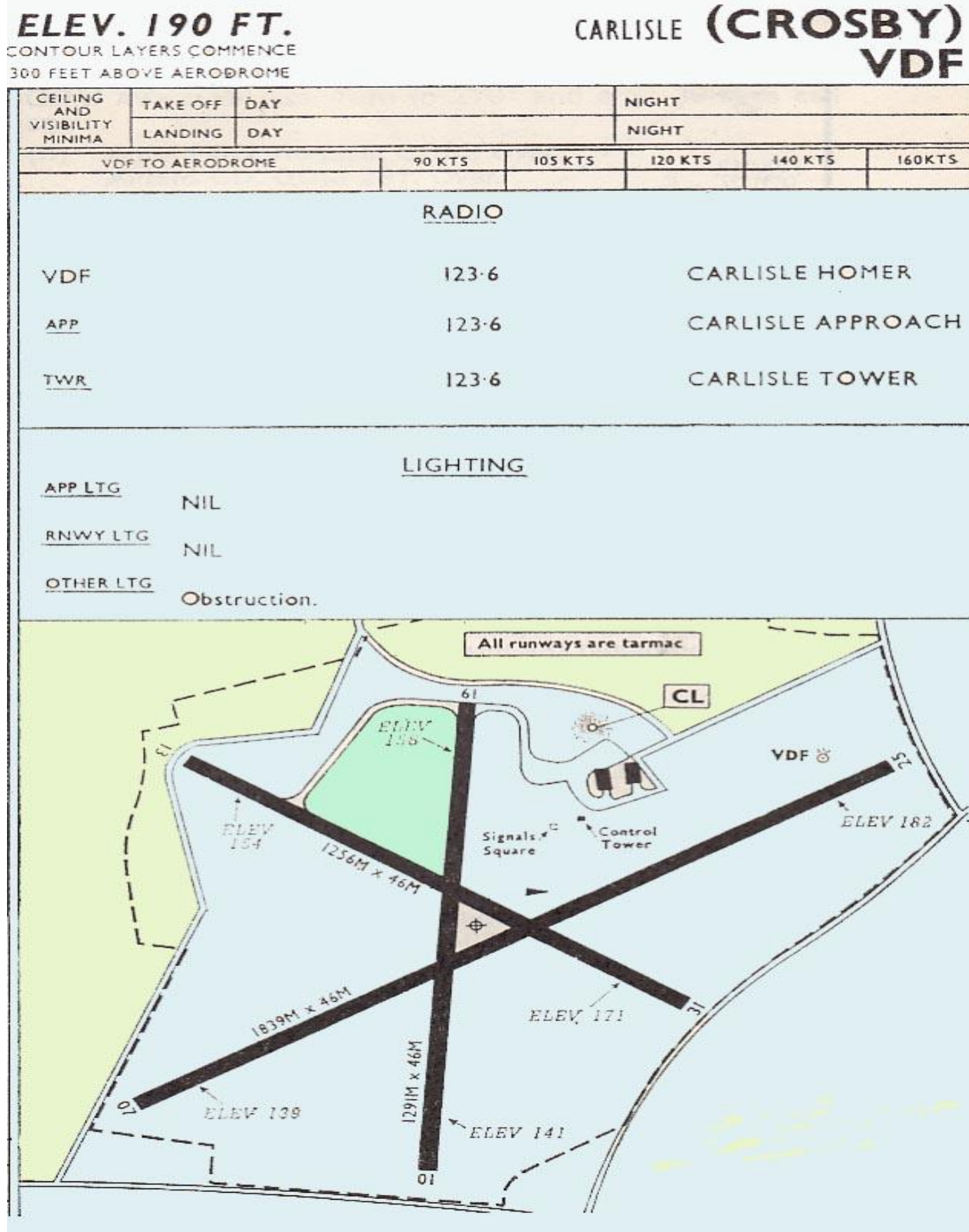


Figure 1.2: Crosby VDF data: CAA requirement of pilots to understand to fly instrument system. What is the sense of such information if **pilots do not understand such information?**



Yes, that is I still in **Israel**, celebrating my success **Flowerbower**; sorry you were not there to join me. I will **not die to please** you **Flowerbower**, while I got a **Bailey I shall continue to kick**. **Always bear that in mind Flowerbower; otherwise if you bend in front of me, you will be in for a surprise that a particular part of your anatomy suddenly experiences a high energy boost, which was unexpected.**

Searl wish to make it clear that with exception of **very long distance flights** the **radio aids** most commonly used in **1985** in **cross country flying** are **VORs (VHF Omni directional Radio ranges)** and **NDBs (Non-directional Radio Beacons)**. Their ranges are such that there is no place in the **British Isles** where a **radio beacon** cannot be used for **track flying** or **position finding**. Searl has presented samples of these special maps which the **FAA expects pilots to understand them**. It was the efforts of **both CAA and FAA** which drove this **technology** into **active service**.

Searl state: that the most commonly used when **approaching** an **aerodrome** are **VDF (VHF Direction Finder)**. **ADF (Automatic Direction Finder):** and **ILS (Instrument Landing System)**. Searl remind you that these is for conventional aircraft and not the **I.G.V.** a different system will have to be developed to meet the **I.G.V. approach** to **dock** at an **airfield**. Searl knows from **experience** that when a **new class of transportation goes operational** the **support system** will be in **place in time** for the **event**. What good is an **air show** if the **backup is not in place** for that **event**? Thus Searl knows that the **needed backup** will be there in **time**.

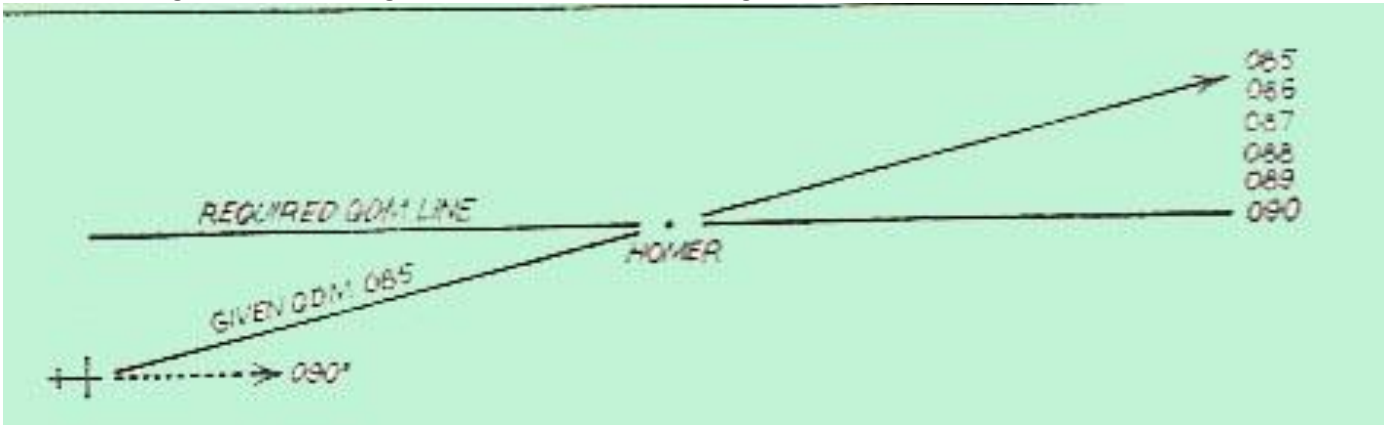
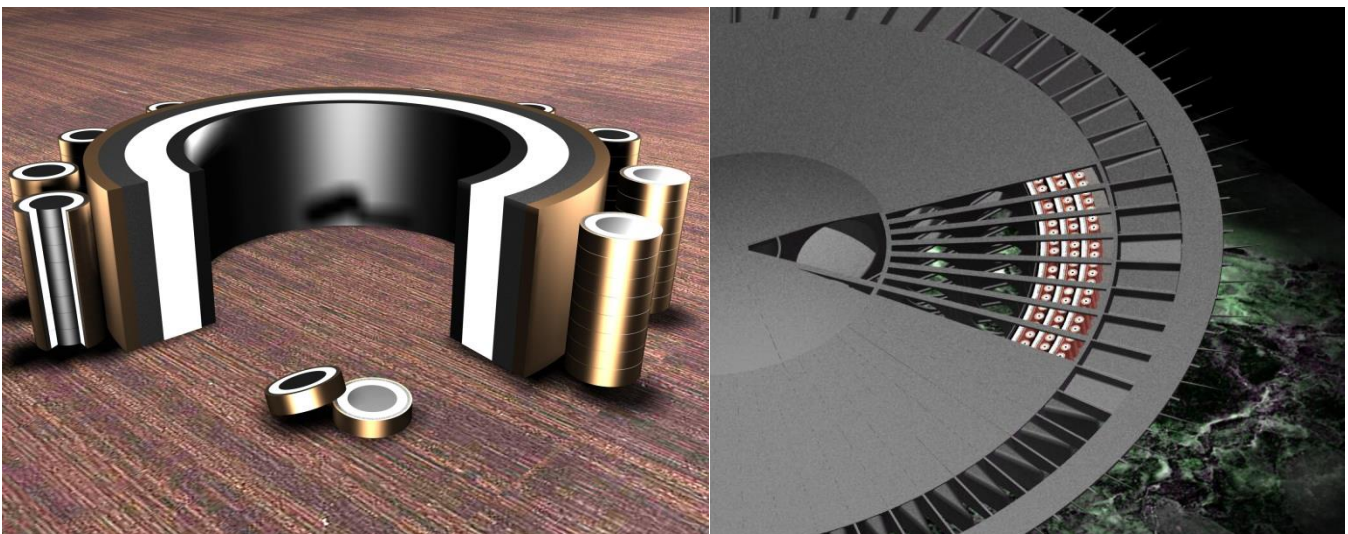


Figure 1.3: Use of the Homer. CAA expects pilots to understand how to use them for track position finding.

Searl remind you that their range is much less as they are used only in the proximity of an aerodrome. Searl accepts that it is essential to know the **position** of **your aircraft** at any time therefore; it is wise to form a mental picture of its **flight path** in relation to a defined point. Searl remind you that earlier in this document Searl explains the **importance** of **distance** and **time**, from a **mathematically standpoint**. Here is an example of reality where that information plays a **critical function**. Searl agrees that there is no better method of learning how to do this than the study of the use of the **VDF** or **Homer** as it is called. Searl informs you that it is used for approaches and let-downs through cloud to a position which will enable a **visual approach** and **landing** or a **low level circuit to be completed**.

Searl hopes that you can remember his **explaining** the **mathematics** of **position** and **time** how important there are in our **daily life functions**. The above is a great example how they play a **major part** of the **function** of **landing** a **conventional aircraft**. Searl states that this is **proof** how **important** is **mathematics** for **both design** and **operation** of the **S.E.G.** or the **I.G.V.**



Searl states don't **crap** where the **S.E.G.** or **I.G.V.** is **quoted**, or you may **eventual appear** like a **fool**. **Unless that is what you wish to appear to the world as?**

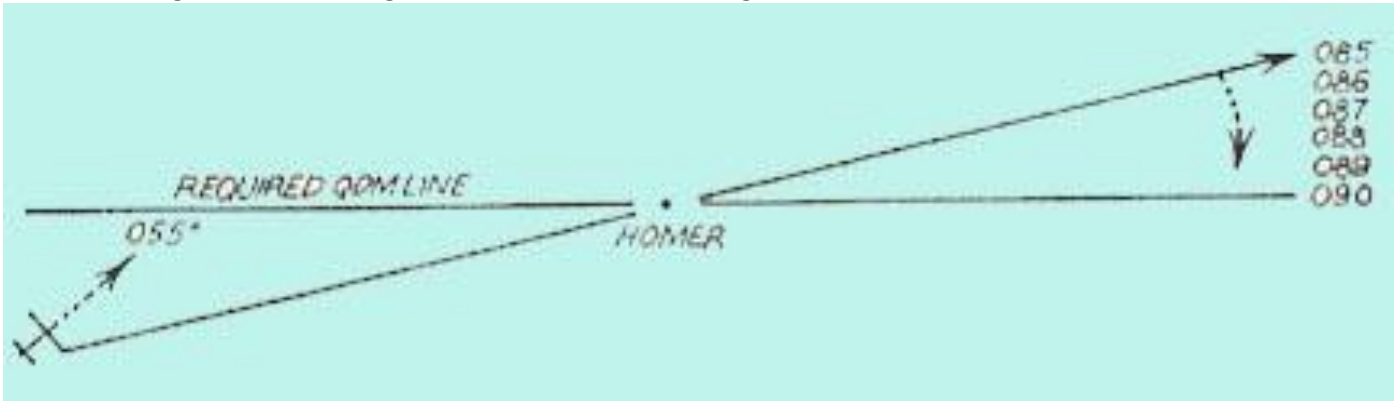


Figure H4: Another example as to what the CAA expects pilots to understand how to use such technology to the best methods of a safe approach in bad weather.

USE OF THE HOMER:

Searl explains that the use of this type of **radio aid** you are given one item of **information** from the **ground station**. Which: is the **magnetic heading** to **steer** to reach that **ground station** in **conditions** of no wind and is known **Flowerbower** as **QDM**. Searl **understands** that this, together with the information given by your flight instruments enables you to fly your **conventional aircraft** along a track towards the **ground station**, which Searl will now call the **Homer**, or to **intercept** any track either towards it or away from it.

Searl suspect that perhaps you are already picturing yourself (**not you Flowerbower as you do not have the mental capacity to undertaken that**) in the air with a **track running** from **underneath** your **conventional aircraft towards** the **Homer**. Searl agree that this is the correct thing to do. Searl **express that this line must**, of **course**, be running in a **specific direction** and as there are **360°** of the **compass** it **could run in any one of those 360° directions**. Do you recall that earlier in this document how **I try to explain how important mathematic** was to obtain the **directions which you seeking?** Here is a good example as to what I was trying to explain.

When Searl ask the **Homer** for a **QDM** Searl will be told the exact **direction** of that line. Searl would like us to assume that the **Homer** gives him a **QDM** of **090** and that Searl was steering a magnetic heading of **090°**. Searl says that with this picture of a compass rose in our minds Searl imagine **090** directly ahead of the **conventional aircraft** and somewhere between this point and the **conventional aircraft**, Searl imagine the **Homer**. Searl states that this will be the mental picture.

Searl states that as it can be seen, all Searl has to do to fly to the **Homer** is to maintain the track of **090**: but, as it has been said, there are things such as wind, etc., which prevent the **conventional aircraft** from keeping the track. Searl suggest that by asking the **Homer** for **QDMs** fairly frequently Searl will be able to see whether or not he has in fact, wandered to one side or the other. Searl trust that now you will understand that Searl is not a **conman**, but a **REAL human being** that freely help to **educate** those who wish to learn.

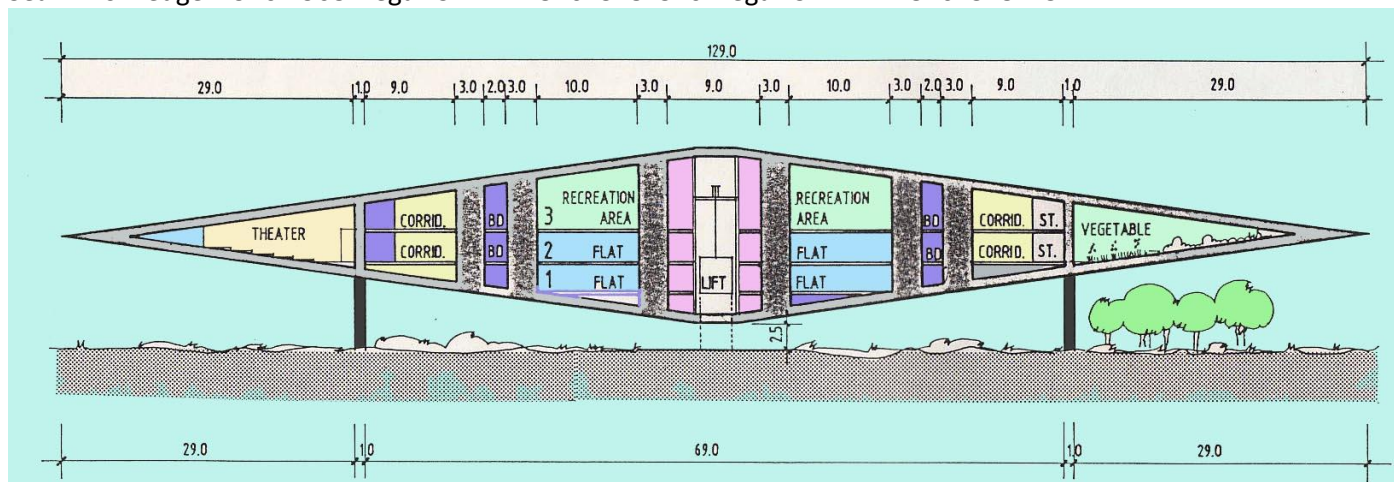


Photo GPST 1: The man in a white top is the editor of the science magazine, in English termed Space and Time. As it shows that I am talking to a German Scientist for another article in the next issue of Space and Time Magazine; to be printed, with a member of my early German team Harry; which I had a copy of that issue.

If Searl receive a **QDM** which is not **090**, then a **correction** to his **heading** will be **necessary** in order to regain the **090** track and some additions to the mental picture will be **necessary** to see how the **required correction should be made**. The **additions** will be some of the **compass points near** to his original **090** one, thus: **Figure N2**; Searl remind you that the **QDM** is always the **line running from the conventional aircraft to the Homer**, so if it is no longer **090** the **conventional aircraft has turned the line away from 090**.

If Searl makes a request, the **Homer** will tell Searl its **new direction** and **imagining** the line pivoting on the **Homer** Searl can picture his **new position**. Let us **assume** that Searl are told that his **QDM** has altered to **085**. Keep the required **090 line in the picture but imagine** another having been **swung away** from it by his **conventional aircraft** with the **Homer** as pivot and pointing to **085**. Here is the new picture: **Figure 1.3**: Searl hopes that you are grasping what he is saying that **mathematics** is now require solving his problem. And if you behave, he will show you his solution, even if you think he is wrong.

Searl knowledge: 1946-1968: Legal: SEARL NO: 013787346: Legal: SEARL NO: 013787451.



This was the **intended 11 metre I.G.V. model**, in which a **pilot** could man it, **unfortunate Richard Branson** got interested in the **I.G.V.** Once: **Martin and Ken heard** that news they push me out to take over to get the cash from him to do things their way, which ended that product every being attempted. How many **time greed** has **stopped** the **backing over the years**. When will they ever learn, let the **inventor deal** with the **backer**, not them, may be **reality will step in**, and we all then will know if Searl was **right or wrong**, want we?

Searl states that his **conventional aircraft** is seem to be to **starboard (right)** of its required track line. Here is an imagine of such a **data system**.

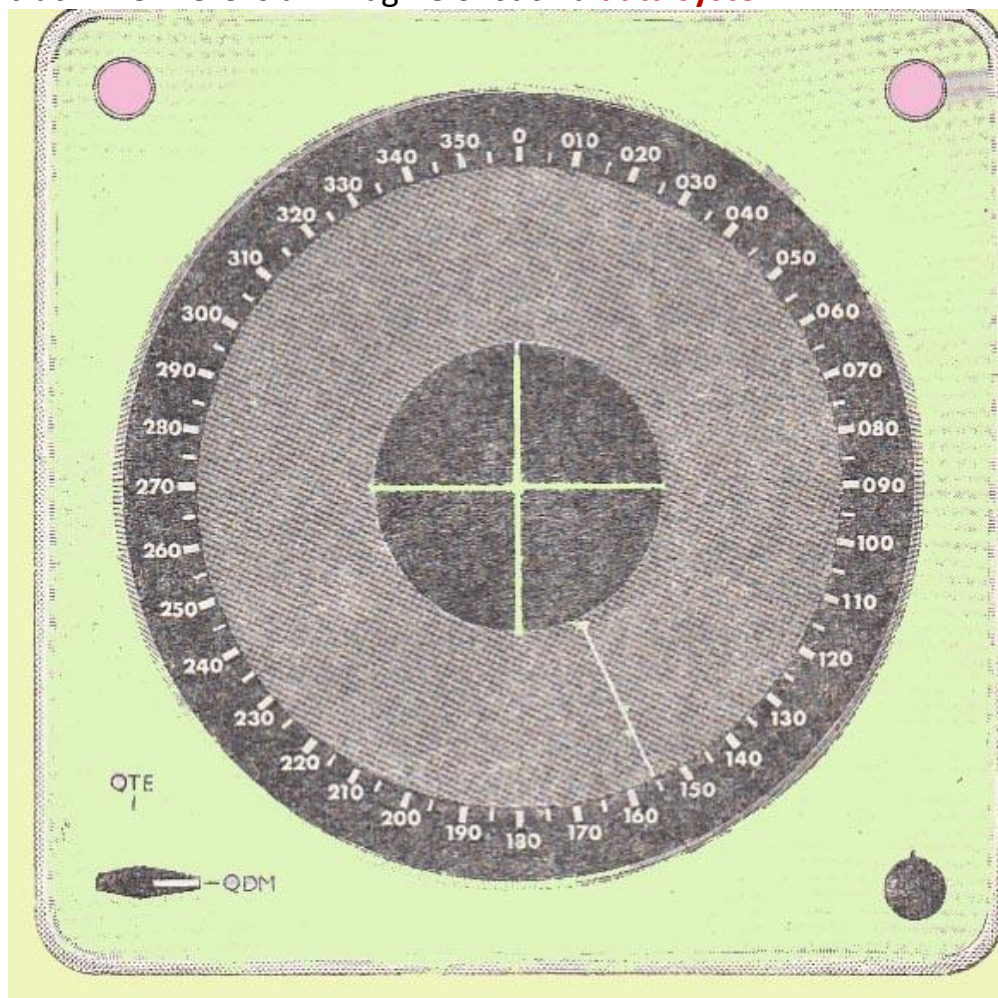
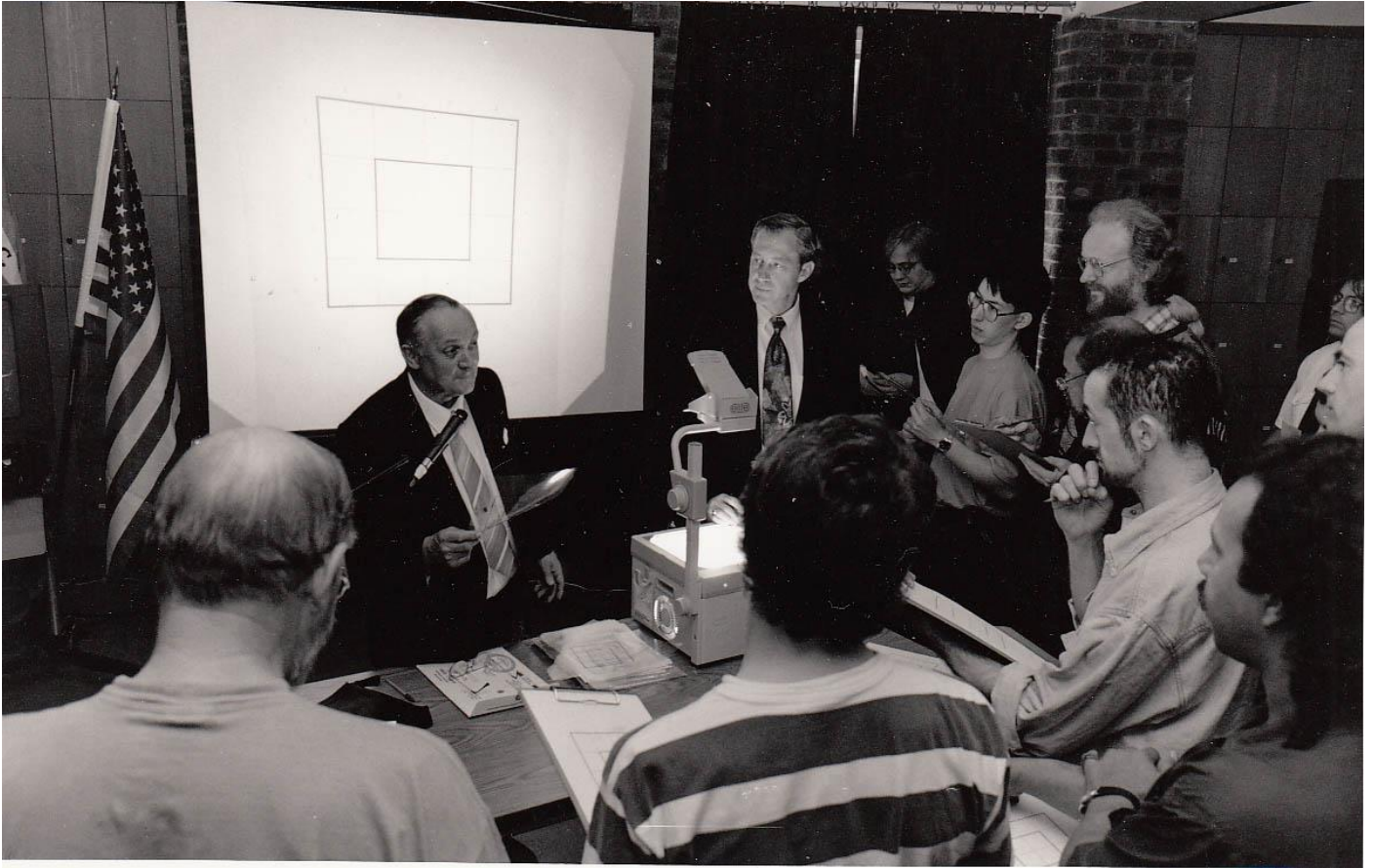


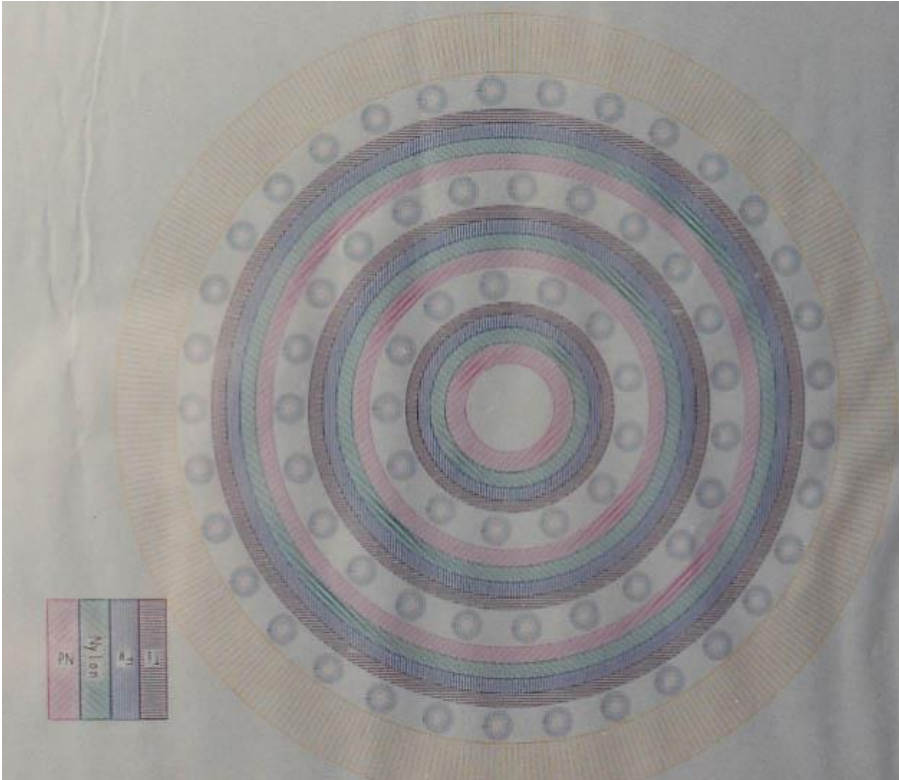
Figure C21: Cathode Ray Direction Finding: Searl has set the illustration to show a **QDM of 155°**.

Searl talks with a straight tongue and presents the FACTS as he knows them from actual experience. Not pass on crap from so call experts on the web, which you are, one of **Flowerbower**. Yet I cannot stop loving you for bringing so many new visitors to my web sites. Well done, keep up the good work.

Searl knowledge: 1946-1968: Legal: SEARL NO: 013787346: Legal: SEARLE NO: 013787451.



This is another **proof** that Searl do **travel** to **give lectures** upon his **technology**, **unfortunate**, in this photo you cannot see the number of **visitors** who **attended** that lecture.



That lecture was about this imagining termed the S.E.G. concept. Which created hate on the web by Flowerbower and his mates? Unfortunate he has run his campaign since 1968 to this date of Thursday November 6th 2014. He still tries to stop backers investing in this technology. But he will never win, as we are increasing real experts to join us, who work free to see it achieved successful.

This is all proof of the reality of that time. But **Flowerbower claims** to have a **certificate proving** that he has a mental problem, of **hate** if you fail to do what he demands. That you can see on the **web**. Such statements would never be made by **intelligent people**.

Searl knowledge: 1946-1968: Legal: SEARL NO: 013787346: Legal: SEARLE NO: 013787451.

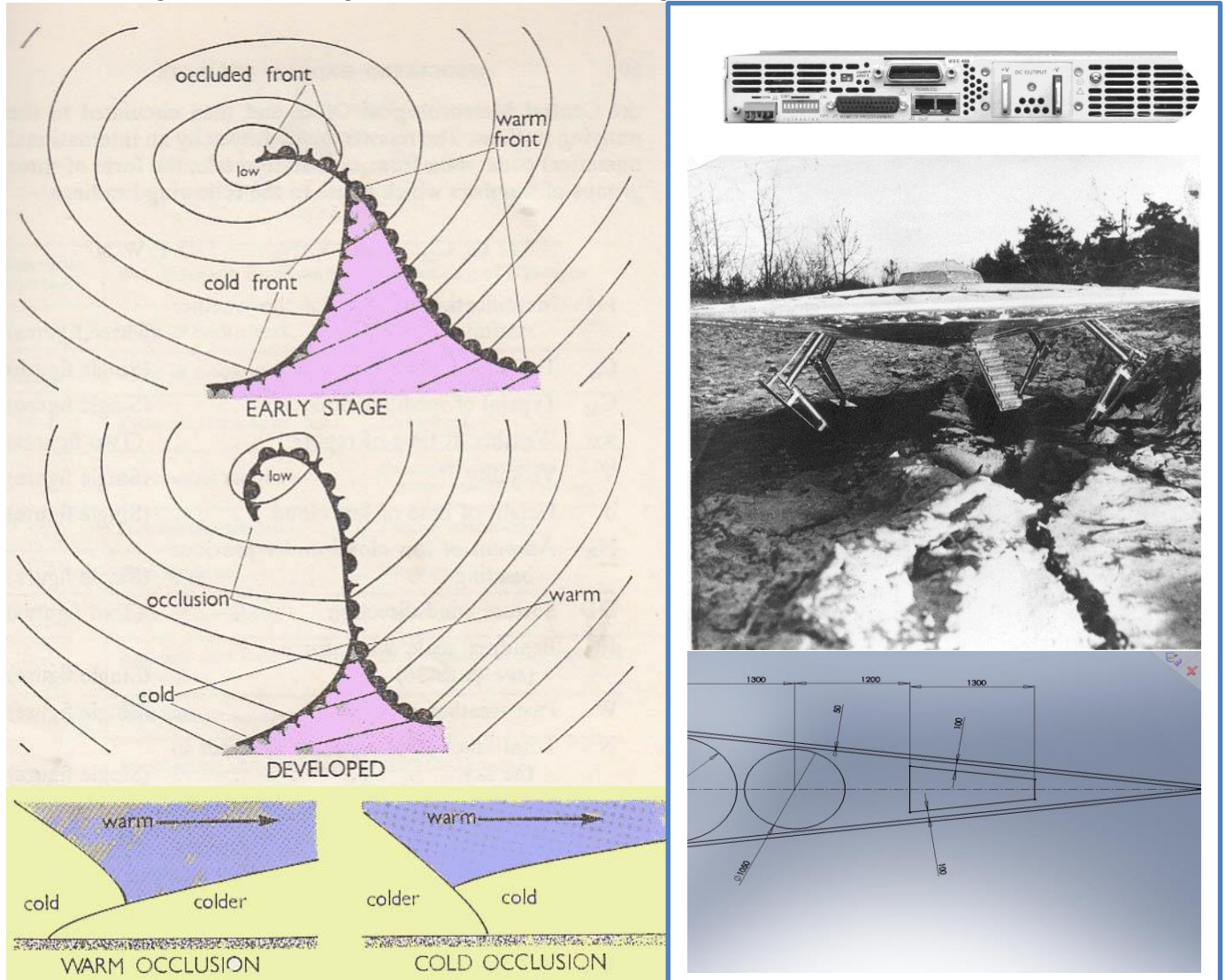


Figure S18: Formation of occlusion.

Type of **occlusion** (**bottom drawing**) is dependent upon **relative temperature** of the **two cold air masses**. This is a **law of nature**. Strange that **nature proves the law of the squares holds true**, across the subjects that Searl have had **hands on experience through employment**.

Searl remind you that his conventional aircraft its heading is still **090°** and if it continued on heading it would push its **QDM** line round to ever **decreasing compass points**. Searl points out that by heading **085°** it would fly along its **new QDM** line towards the **Homer** but that is not the solution for Searl problem, as Searl needs to regain the required **090** track line it would have to steer a heading of **LESS** than **085°**. Searl would undertake some **mathematics** to assess a convenient angle at which to approach the required line, which worked out at **30°** away from the given **QDM = 055°**. Searl having turned to **055°** remember that the aircraft is moving and is moving in the **direction 055°**. Searl says that you can stop to think if you like but don't forget that the **aircraft won't stop!**

Searl say he sorry that he is jumping about, but his work covers **massive amount of data**.



Searl is still in **Israel** with a member of his team there, and **touring** and **inspecting** the **new science complex** where Searl **new S.E.G. research and development** will start, if Searl can get the right deal with the **investor** who deals with **Government grants** for **energy research**. So far the **wrong offer** has been presented to Searl; if the **offer fails** to meet Searl **requirements** he will return home to the **UK**.

Searl informs us as it moves in the **direction 055** it pulls its **QDM** line through **QDMs 086, 087, 088, 089** and **090** and so **QDMs** must be requested as frequently as possible and a turn commenced to **090⁰** before that **QDM** is given. Searl states exactly when to commence the turn depends upon the **distance** from the **Homer** and the angle of approach to the required line. The mental picture should now be: **Figure H4: Page 243**. Searl explains that is how to build up a mental picture of his flight path in relation to the **Homer**. Searl states that if for any reason you should lose this mental picture then there is a **rule of thumb** which is very useful; **No Flowerbower** it is not to thumb up your bum; but it is this:

When: approaching the Homer – if the QDM given is LESS than the QDM required: steer LESS, if more steer MORE.

Searl hopes that you can **understand** this issue, as he cannot think of any way better by which he can explain a problem by which **mathematics** is required to solve it. But you must hurry with the solution, as the aircraft will not stop to let you work it out!

Searl knowledge: 1946-1968: Legal: SEARL NO: 013787346: Legal: SEARL NO: 013787451.



Prof. Searl: waving goodbye to **Israel**, returning home after **failing** to get a suitable contract.
Page 439©



Searl seen here at last with a **calculator**, rechecking his long hand figures of **Star Ship Ezekiel MK II**: that created the **massive technical drawing** which now is on show in the Lab here in California, U.S.A. **All figures proved to be correct. Yesterday, Wednesday 5th 2014**: the **actual books containing all my hand writing figures arrived on my desk here from the container being unloaded from the UK.**

In Searl example the **QDM** given is **085**, which is less than that required: **090**, so to regain the required track steer less than **085⁰**. Searl states: obviously, if the **QDM** given had been **095**, which is more than the required **090**, a turn to **starboard** on to more than **095⁰** would be necessary. **NOTE**: to steer less, turn to **port**, and to steer more turn to **starboard**. You may have noticed that I have **stopped using baby talk**, and **replaced it with pilot talk**, the real terms.

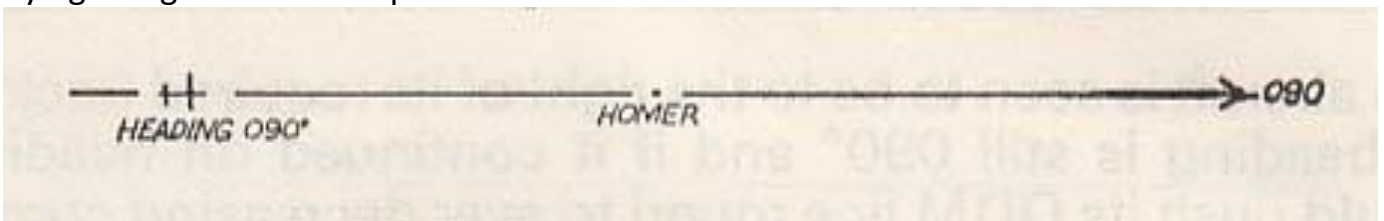
Do you remember **1947 Transistor**: **1948 Information Theory**: **1958 Integrated Circuits** and **Cloud Computing**: **1959 Nanotechnology**: **1969 Internet**: **1973 Cell Phones**: **1974 Molecular Electronics**: **1978 Public Key Cryptography**? All these **technology appeared** in my working life **1946 – 2014**, as an adult – **some experts stated impossible** – yet they became possible.

Searl knowledge: 1946-1968: Legal: SEARL NO: 013787346: Legal: SEARLE NO: 013787451.



Thursday 6th November 2014 at 2115 hours: This photo appeared of part of the U.S.A. team, clearly enjoying the sun, while Searl enjoys the pain, without the rain.

Searl say that assuming that the **QDM** Of **090** have been regained and that the aircraft is flying along it the mental picture will be this:



As Searl fly along this line Searl will eventually pass over the **Homer** and continue flying along the line going away from the **Homer**. Searl says that there is one important thing happens when Searl cross to the other side of the **Homer**. The **QDM**, being the heading to steer **TOWARDS** the **Homer** will change through **180°** and will therefore change from **090** to **270**. The arrow head in the diagrams denoting the **QDM** moves to the other end of the line.

Searl states: that this is precisely how the roller sets operate: 2 top peaks, at the centre of the movement is a **Homer effect**. The **Homer** draws the roller set towards it, on crossing it; it switches to pushing the roller set to the next peak of the change. And the cycle continues to repeat itself.

Searl states: that this change in **QDM** received informs Searl that he have passed over the **Homer**. At least that proves that Searl has done something right, **Flowerbower**, can you beat that?



Jason, being one of the team workers, testing the latest 3D system before it is sent on to Samuel Mason and his graphic partner, to develop virtue reality images for the next big even on energy lecture. I am looking forward to the day they come and make a moving on the S.E.G at the lab here.

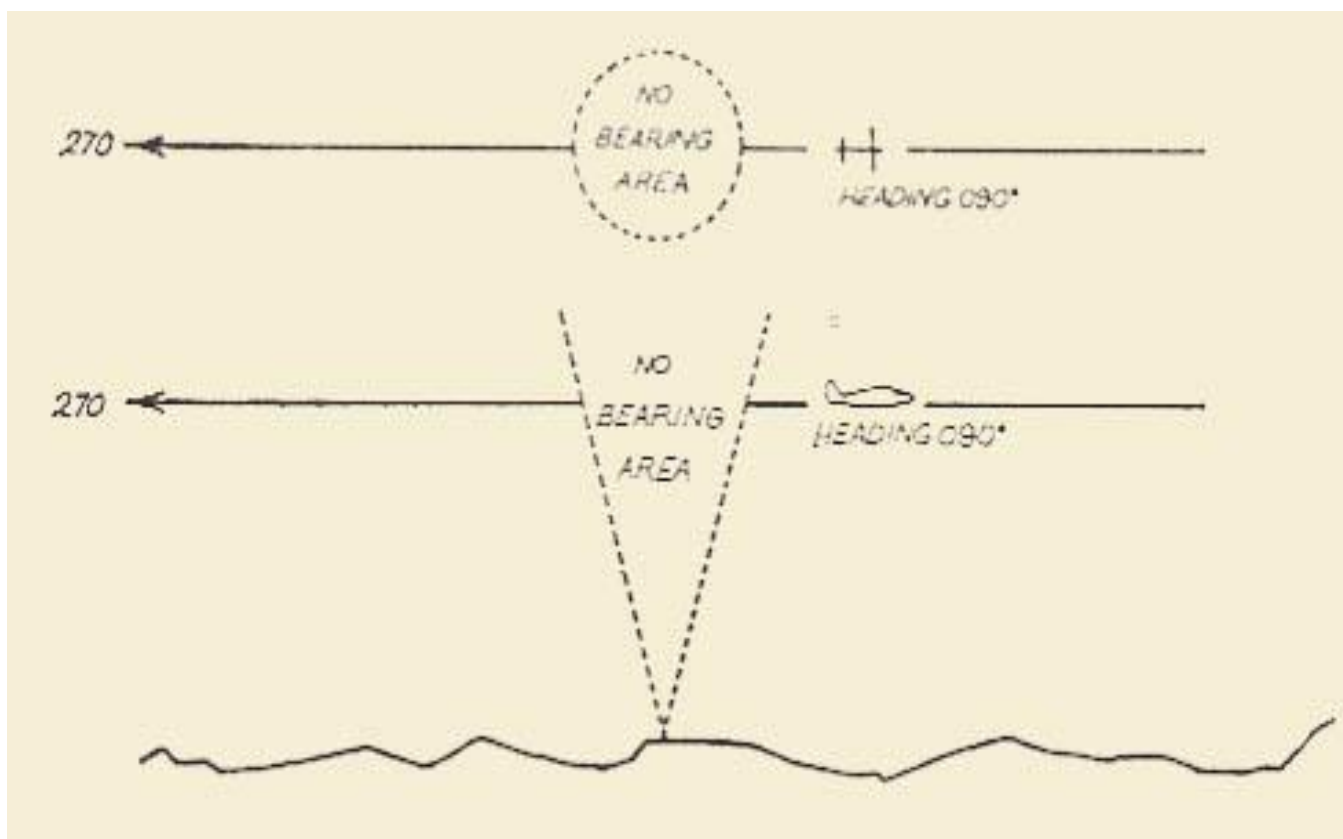


Figure C6: CAA requirement that pilots understand the function of the QDMs

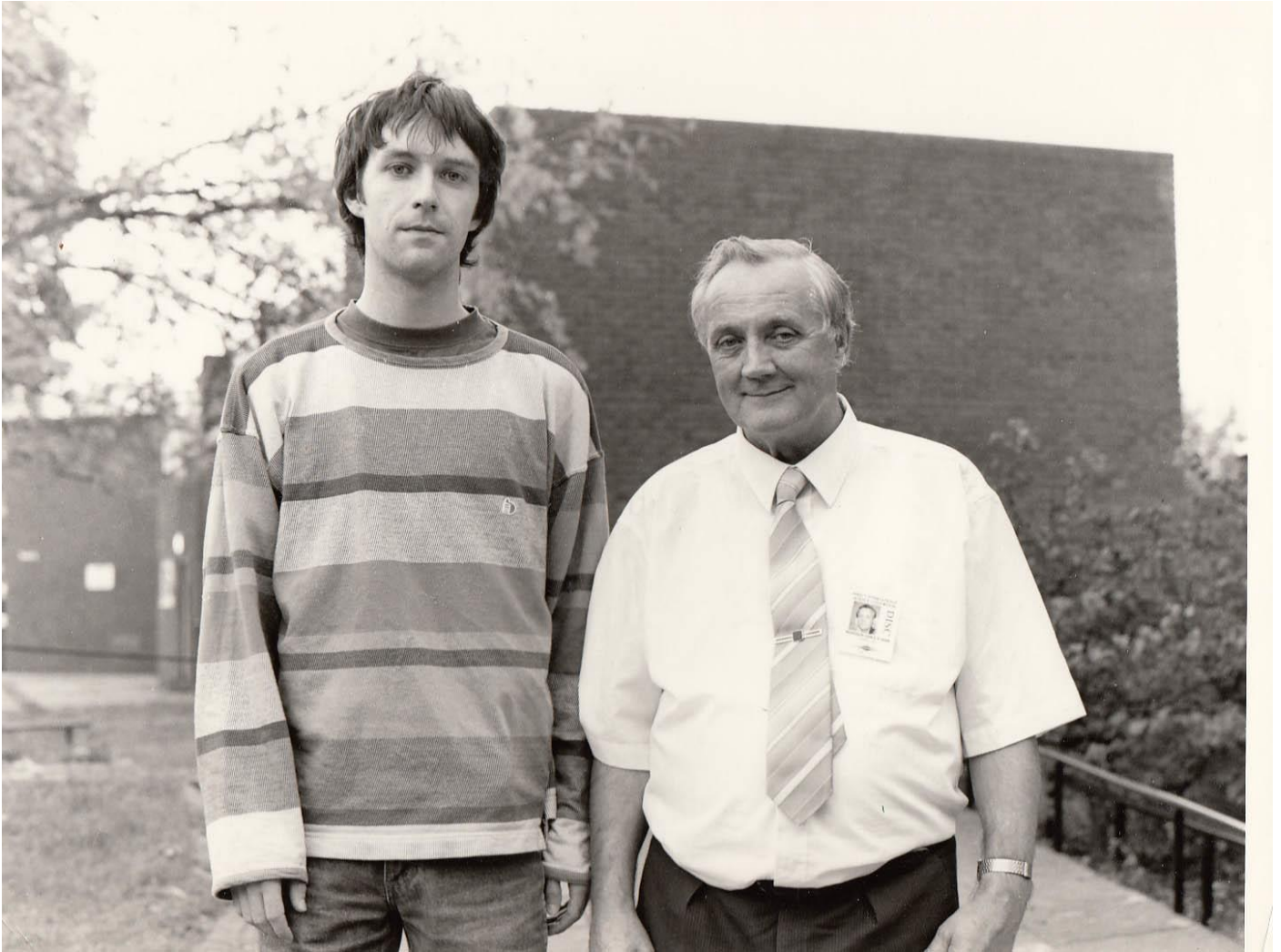


Searl, Carla of China team and Mike from Canada team, Morris from California U.S.A. taking the photo at the bank in Amsterdam to sign up a bank account for China. This cost us two trips due to legal work with our solicitors there. There is still more legal work in the U.S.A. Bank to undertake just to set up an account for China. But we are becoming use to all this legal work which is involved.

Searl points out that it does not occur abruptly like moving from one side to the other because the nature of radio waves and the equipment used are such that it is more like passing through an inverted cone, the point of which is on the **Homer**. Within the area of this cone bearings taken by the **Homer** are unreliable and you will be given **no bearing**. Searl states that there may be other reasons for being unable to give a **QDM** it is only when a reciprocal bearing that Searl can be sure that he have in fact crossed over the **Homer**. This is the mental picture now becomes: **Figure C6: page 442.**

It may be that Searl are required to continue along that line going away from the **Homer**, and is Searl wander off, to regain it. Let us assume that Searl ask for a **QDM** and are given **275** instead of the **270** Searl expected. Searl must immediately adjust the mental picture. Keep the **270** track in mind and add the given **QDM** line of **275** like this: searl says that unfortunate the drawing will not fit in the space available here in the sense that the information can be read clearly. Thus, it will have to be carried over to the next page. Again, Searl hopes that he is presenting these imagines large enough for those with poor eye sight can appreciate them, as he knows from experience **how hard** it is to **really see small print** which is appearing these days on **jars, bottles** and **packages** in which we old ones cannot see them.

Searl knowledge: 1946-1968: Legal: SEARL NO: 013787346: Legal: SEARLE NO: 013787451.



1968: where is this team member of **Northern Ireland**? That was pushing the work over there. Not heard a word from him since **Peter King** and his merry team of robbers carried out that massive robbery, and yet the **law** done nothing about it as they were related to me. It is up to me to take them to court in due time.

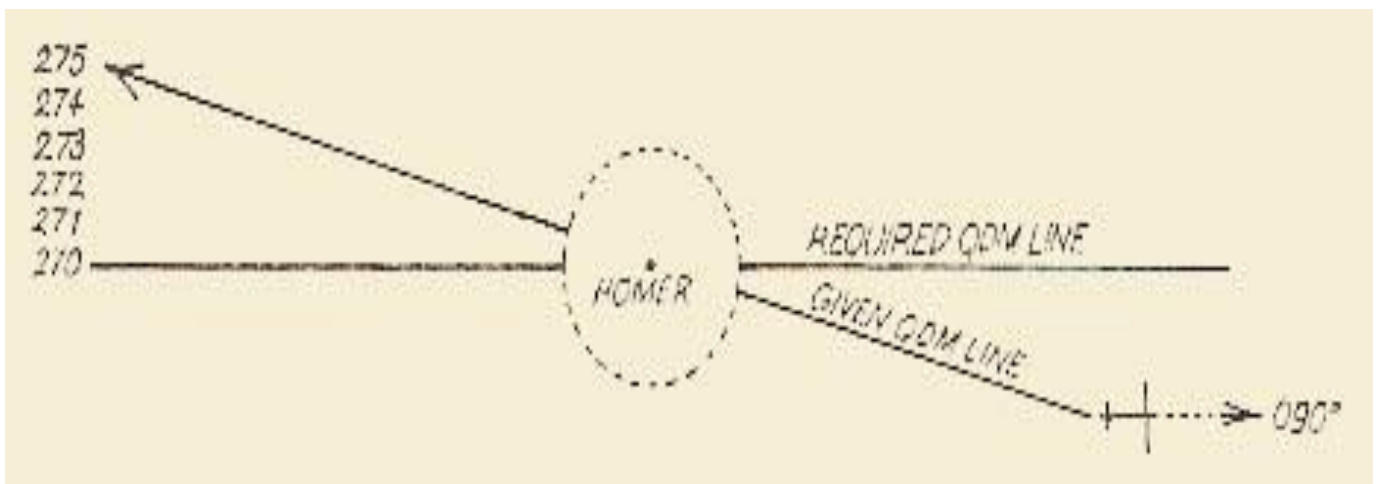


Figure A7: CAA expect pilots to understand how to use this QDM radio aid.

Searl states: that it appears strange that the **S.E.G. actually functions** in a similar way.
Page 444©

Searl knowledge: 1946-1968: Legal: SEARL NO: 013787346: Legal: SEARLE NO: 013787451.



1982: Grahame Park, London, UK: The start of **press functions** after a long break due to leaving Mortimer. Berkshire, UK:

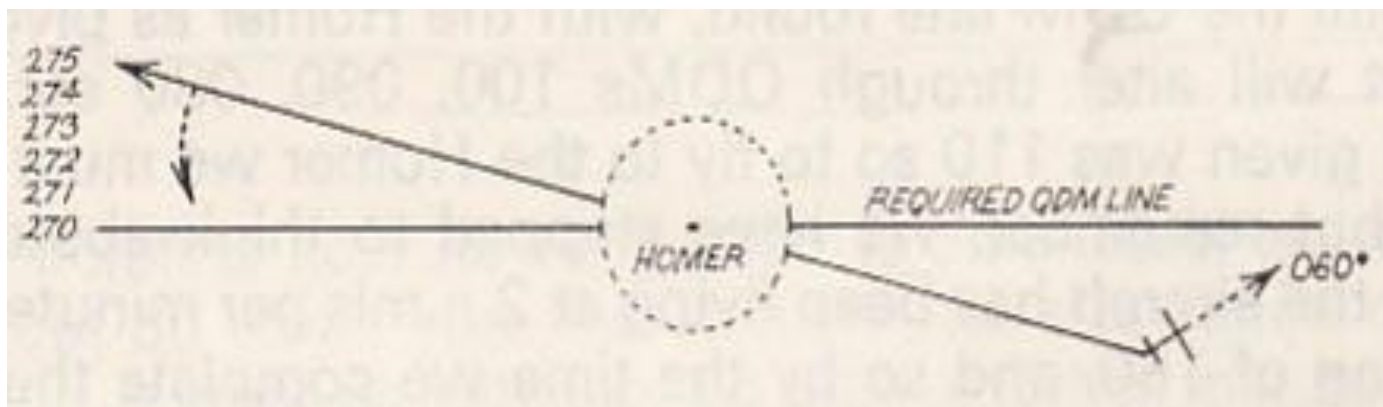


Figure A8: CAA expects all pilots to understand the function of the Homer.

When one closely studies the function of the **S.E.G.** one can observe a **similar structure** event operating, in a different language setting. Nevertheless the concept is similar; like the aircraft that needs to get from **A** to **B**, likewise the roller set also needs to get from **A** to **B** as the **aircraft is attracted** to the **Homer**, the **roller sets** must also have a **homer effect midway**, where the **force has to change**, so it can reach its **destination**, as the **Homer reverse** its **direction**, as the **aircraft has passed over it**. So has the **roller set** got to have a reverse of force acting upon it? Searl trust this issue is now clearer to understand. Searl is aware of your **problem of understanding the S.E.G.**

Searl knowledge: 1946-1968: Legal: SEARL NO: 013787346: Legal: SEARLE NO: 013787451.



November 1981: Taken by **Pastor Bennewitz at Mortimer, Berkshire, UK**. Just: before I was force to leave my home; due to the **hate**, which existed there based on the **I.G.V research** work that I was getting mass publicity upon. That was the Pastor from the U.S.A. who sent me the very old bible to show me that in the book of Ezekiel chapter 2, was the same words as I had just explain the structure of Demo one to him, which I was modelling of the **Star Ship Ezekiel MK V design which can be seen at the Lab here in California, U.S.A.**

Searl states that from this picture it is quickly seen that the aircraft must turn port to fly towards the required line, **30°** will be a convenient angle at which to approach it so turn port to head **060° (090 – 30)**. Now the picture the aircraft moving in the **direction 060** and you will see that it pulls its **QDM** line round, with the **Homer** as pivot, through **QDMs 274, 273, 272, 271, to 270** thus: Figure A8: page 255.

Searl reminds you should you lose the mental picture there is another rule of thumb. It is: **when flying away from the homer: if the QDM given is MORE than the QDM required, steers LESS than the reciprocal of the QDM required, and if LESS steer MORE.** In Searl example the **QDM** given is **275** which is **MORE** than that required (**270**) so Searl headed **060°** which is **LESS** than the reciprocal of that required (**090**). To steer less turn port and to steer more turn starboard. Searl states that **S.E.G. functions** in a similar manner, but by **magnetic** instead of air.

Searl knowledge: 1946-1968: Legal: SEARL NO: 013787346: Legal: SEARLE NO: 013787451.



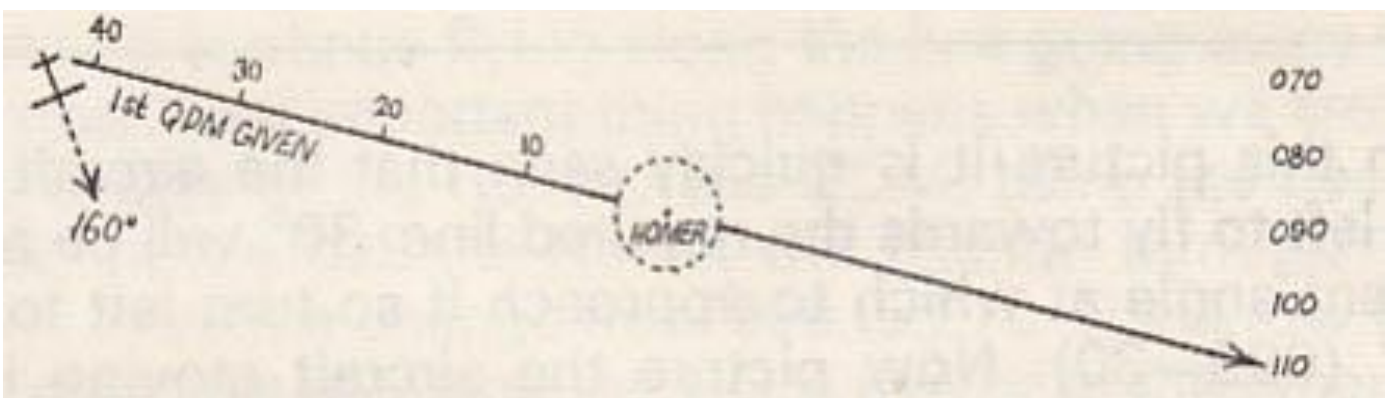
My: first lecture in Switzerland where I sign the agreement for the Swiss group to develop the S.E.G. By December this man phoned me to say that he had made a segment and strange its grey yet nothing grey had been used. Later I ask Harry to go and check him out, and reported that they were making the S.E.G. to patent.

Thus, again I had to stop this work and I had told them at the start no patent, as I have told them all over time. Which was the advice given to me when I filed for a patent, they informed me by phone that it was a **knowhow** and you should **never patent a knowhow**. Which: to my mind makes sense.

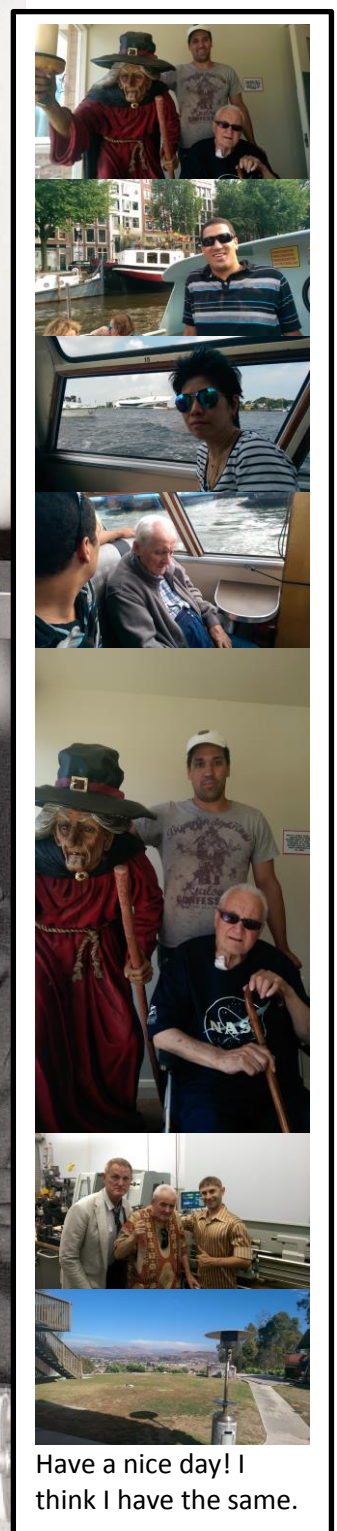
Searl state that these then are the **methods for deciding which way to turn** when a **correction** to regain track becomes necessary. Searl suggest that you should get into the habit of forming this mental picture and use the **rules** of the thumb only when that picture is lost to your mind.

Flying a Track to the Homer and Allowing for Drift:

Searl suggest let us now see how to fly to a **Homer** with no specific track to make good and not knowing the wind speed or direction. Searl suggest let's assume the present heading of the **aircraft** to be **160°**, its **airspeed 120 knots**, and that it is **40 nautical miles** from the **Homer**.



Searl knowledge: 1946-1968: Legal: SEARL NO: 013787346: Legal: SEARLE NO: 013787451.



Barry Stroller: who wrote the music for the BBC match of the day, which has been played on every match for over 25 years, and still is used today. This photo: taken at London University in Hendon; supporting my lecture given that day with Bradley K. Lockerman and many others filming this lecture. Wrote the music for all my poems which are in my books plus music to my letter to President Carter., which was a very long letter. It should be on the web. You say I do not get out and about to tell people about this technology, for your information, that is what I have been doing most of my life. On the air via radio and television: in the press, magazines, and Journals. You name it; I bet you I have done it.



This is a photo of Luis and me: at my first school in Thorndon, Suffolk that had been modernise completely with separate girl's and boy's toilets. A Morden: front approach, electric lights. Completely reverse to my time there. Susan took the photo for me. Luis was my friend until he was one of the 5 who stole £380,000.00 of my equipment. From that date he ceases to be my friend.

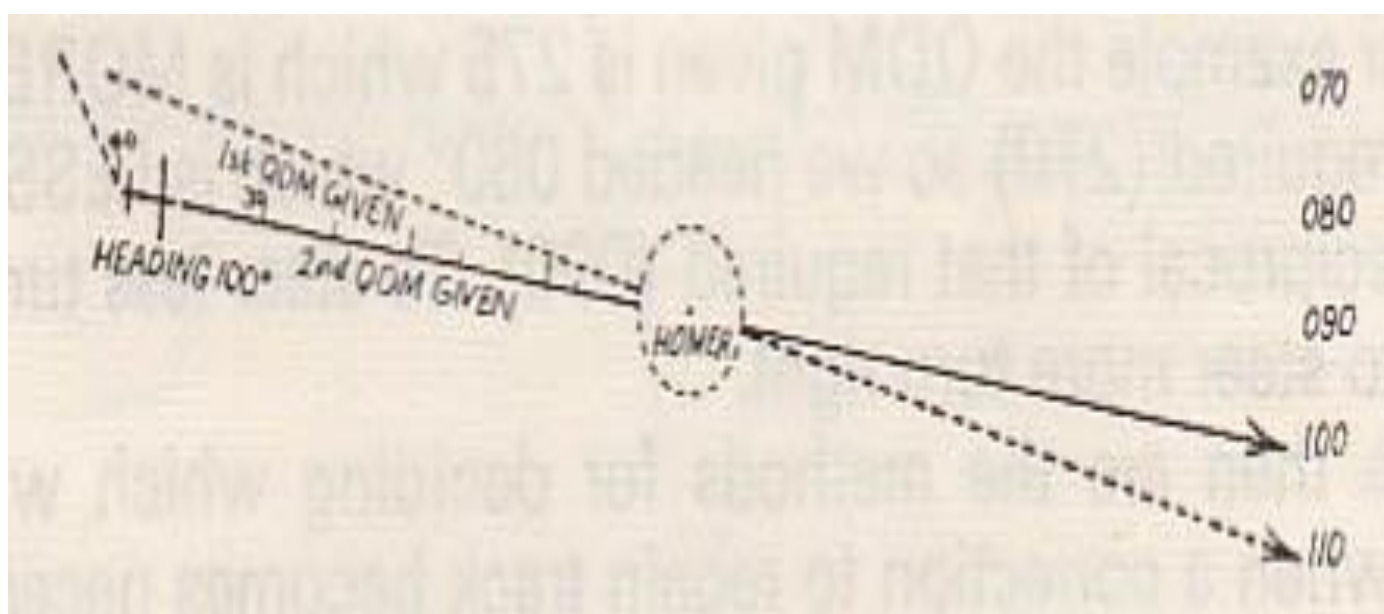
Searl must build his mental picture, so the first requirement is to find out where Searl are in relation to the Homer. Searl find this by asking for a QDM. Let us assume that Searl are given a QDM = 110. Start the stop watches now because Searl want to keep track of his progress towards the Homer which Searl should reach in about 20 minutes and then form this mental picture: bottom drawing on page 447. In this picture the QDM line point to 110, the Homer will be some 40 nautical miles away and the aircraft will be heading 160°.

If Searl do not alter heading Searl can see that the aircraft will pull the QDM round, with the Homer as pivot, so that it will alter through QDMs 100, 090, 080 etc. Searl hope you have the right idea on how to use the Homer. Searl points out that within this discussion the subject on how the S.E.G. function was shown of how the roller sets are cause to rotate around the plate.

Searl knowledge: 1946-1968: Legal: SEARL NO: 013787346: Legal: SEARLE NO: 013787451.



Here is a photo which I took for the records of **Thorndon Infant School** which then was a **church school**. Which I believe means that the church raised the cash to build it; it has been completely changed to meet basic modern class school. Now it is **2014**, I cannot say that it is **still operating**. Things **change** thus, they come and go.



Can you work this out? **CAA expect pilots to be able to do so,**



Now you see that I have been getting around **lecturing** in various parts of the world. And at **82 years + 6 months** I can still lecture upon the S.E.G. or the I.G.V. The uniform was designed for me by the air force uniform designers for my company flying sector of R&D, Today I have transferred to the USA to create the R&D flying side. The name: of the company on the uniform needs to be changed later on.

During the last few pages of this document I have spent time in the effort to teach how to use the **Homer**, some of that **data relates** to the **S.E.G. function owing to its inherited behaviour** that the **roller sets actually fly around the plate**. Of course I can go on and on with samples in this effort of teaching. But the **S.E.G.** and the **I.G.V.** cover many subjects, so I can only present a few of them in this document as and **insight** of my **education**, which appears to be a **problem with your failures**.

Through this document I will ask: do you remember something relating to a **particular year** – **WHY**? Because: such investigation may end up on my company to **develop** such products for the **flying side involvement**. Both the S.E.G. plus the I.G.V. have a massive window to be **developed**; it is not some small item that will be over ridden by other **technology**, but they will assist other **technology** to be developed. The **S.E.G.** for me; is far too late, but for you it's far too soon. That does not **mean** that we cannot start to teach the world of things yet to come, thereby you will be ready for the **change** which is **meant to be**. Document shows **my world** as it was, and as it is today, and the future which I can see.



Here Searl is in **Italy** with two member of a company who have made an **application to manufacture the S.E.G.**, with me, are **Dr. Terry Moore and Debbie**, who are from the **UK**.

ELECTRICAL FORCE:

Searl have shown that **current** will not flow in a circuit unless an external **force** is applied. In my books I have discussed circuits where the **force** was supplied by **batteries**. But in the case of the **S.E.G.** the **force** is supplied by a **magnetic river**. Within the **structure**, and is not an **outside external force**. Searl showed that the **battery changes chemical energy to electrical energy** by separating **negative** charges (**electrons**) from **positive charges (ions)**. These charges produce the **force** or **pressure** which causes **electrons** to **flow** and do useful work. **NOTE:** That in the **S.E.G.** the **magnetic river** effect creates the **force** which makes the roller sets move. And it is the load drainage that creates the **velocity** of the rollers function. Searl explains that this **force** is given several different names that are used more or less interchangeably. Searl suggest let's examine the three most popular names and see what each name implies.

Electromotive Force (EMF):

One popular name is **electromotive force** which is **abbreviated emf**. This name is very descriptive since it literally means a **force** which moves **electrons**. Thus, **emf** is the **force** or **pressure** which sets **electrons** in **motion**. This **force** is a natural result of **Coulomb's Law**. Searl trust that you can follow what he is stating here.



I am in **Italy** meeting the head of a company which wanted to **manufacture the S.E.G.** with me from the **UK** was **Debbie** and **Dr. Terry Moore**.

Searl states that you will recall that **Coulomb's law** states that **like charges repel** while **unlike charges attract**. You recall that the **battery**, by chemical action, produces a **negative charge** at one terminal and a **positive charge** at the other. Searl remind you that the **negative charge** is simply an excess of **electrons** while the **positive charge** is an excess of **positive ions**. Searl states that if a closed circuit is connected across the **battery** as shown in Figure 2.1A, a path for **Electron flow** exists between the **battery** terminals. **Free electrons** are **repelled** by the charge on the **negative terminal** and are **attracted** by the charge on the **positive terminal**. Searl explains that these two opposite charges exert a **pressure** which forces the **electrons** to flow. Thus, the **force** or **pressure** is the results of the **attraction** of the **unlike charges**. To summarize, **emf** is the **force** which sets **electrons** in **motion** in a **closed circuit**.

The **S.E.G.** uses the **force** of the switching on and off of the **magnetic river**. In other words the **positive** and **negative magnetic** action generates the **force** by which the **roller sets actually moves**. As the **load increases** the **magnetic field increases** in the **frequency** of its **function** of **on** and **off action**. Which is a **natural function inherited** in the **design** of the **S.E.G.** But in this case; it is an **open circuit**, and **not a closed circuit**. As **electron replacement** must be available at all times from whatever source that is available.



This time I am in the **UK** with **two visitors**, agree that I am **not travelling** here but I am still **receiving visitors to discuss the S.E.G. regardless**. I need not name them as you will know them.

Potential Difference:

Searl states that another name for this **force** is **potential difference**. This name is also very descriptive. It describes the **characteristics** of **emf** in an **open circuit**. This is why when I speak about the S.E.G. I always say **potential difference**. EMF is the **force** which causes **electrons** to move as shown in Figure 2.1A. Searl states: however, consider the situation shown in Figure 2.1B. Here, **electrons** cannot flow because the switch is **open**. Nevertheless, the **battery** still produces the same **pressure** or **force** as before. This also applies to the S.E.G. if the products are all switch off, then no **electrons** can move, even though the S.E.G. still producing the same **pressure** or **force** as before. But: is now running at an ideal speed. Which is a natural function generated by the sum of the square which it was manufactured from.

Thus, the **potential** for producing **current flow** exists even though no **current** is presently flowing. As used here, **potential** means the possibility of doing work. If the switch is closed, **current flows**, the **lamp lights**, and useful work is done. Therefore, whether a **battery** is connected into a **circuit** or not, it has the **potential** for doing work. This also applies to the **S.E.G**. Searl trust that this is helpful to the beginner.

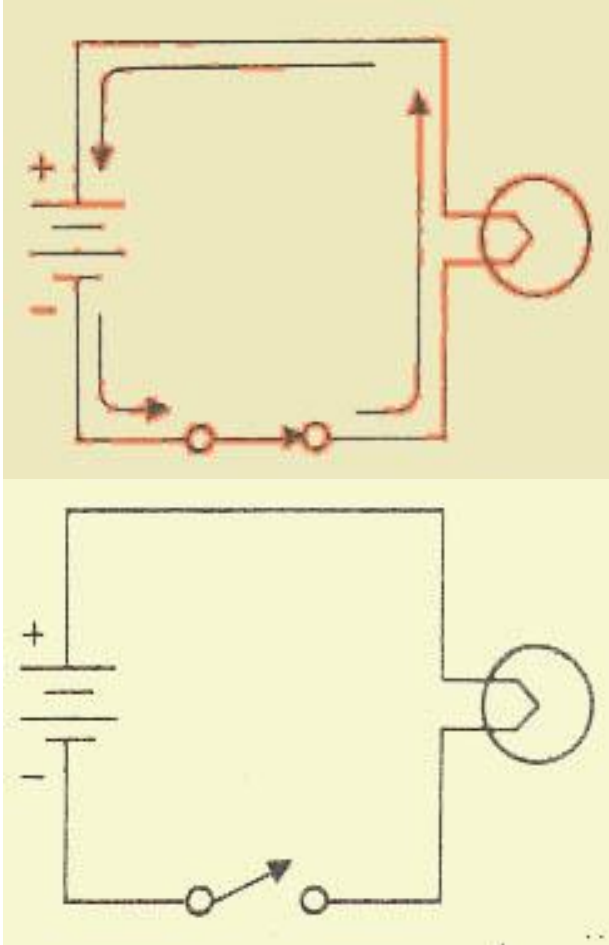


Figure 2.1A: **EMF** causes electrons to flow in closed circuit.

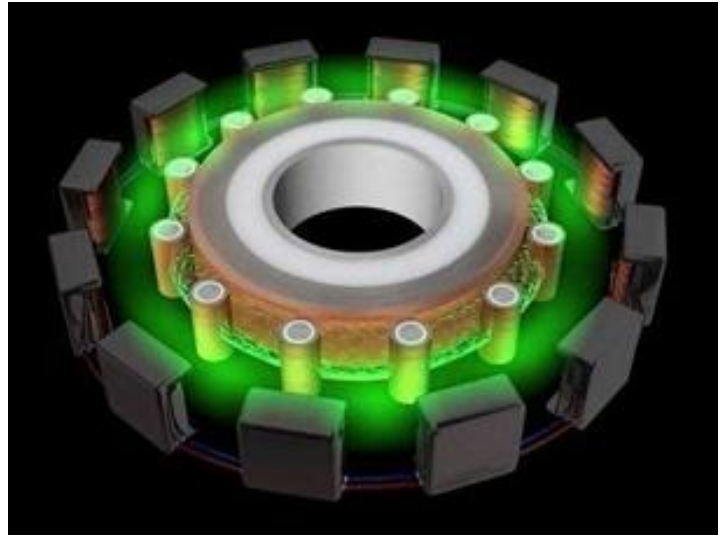


Figure 2.1B: **Potential** for current flow exists even though there is no current. The S.E.G. is precisely the same functions. I should know as I am the inventor Prof. John Roy Robert Searl. Who is determining to give birth to this baby in the United States or China!

Figure 2.1: Emf and potential difference.

Searl states that actually, any **charge** has the **potential** for doing work. For example, it can move another **charge** either by **attraction** or **repulsion**. Even a **single electron** can **repel** another **electron**. Searl points out that if one **electron** moves as the result of the action of the other **electron**, some small amount of **work** is done. In the **battery**, Searl are concerned with two **different types** of **charges** rather than a single **charge**. Searl points out that the **electrons** at the **negative terminal** are straining to rush to the **positive terminal** and cancel out the **positive charge** there. In the same way, the **positive ions** at the other **terminal** are straining to **draw** the **electrons**. Searl call this **force potential difference**. It is the **potential** for doing **work** that exists between **two different charges**.

Searl states: the amount of work that can be done must be related in some way to the **characteristics of the charges**.



Searl knowledge: 1946-1968: Legal: SEARL NO: 013787346: Legal: SEARL NO: 013787451.



Another visitor, each one interested in free energy systems.

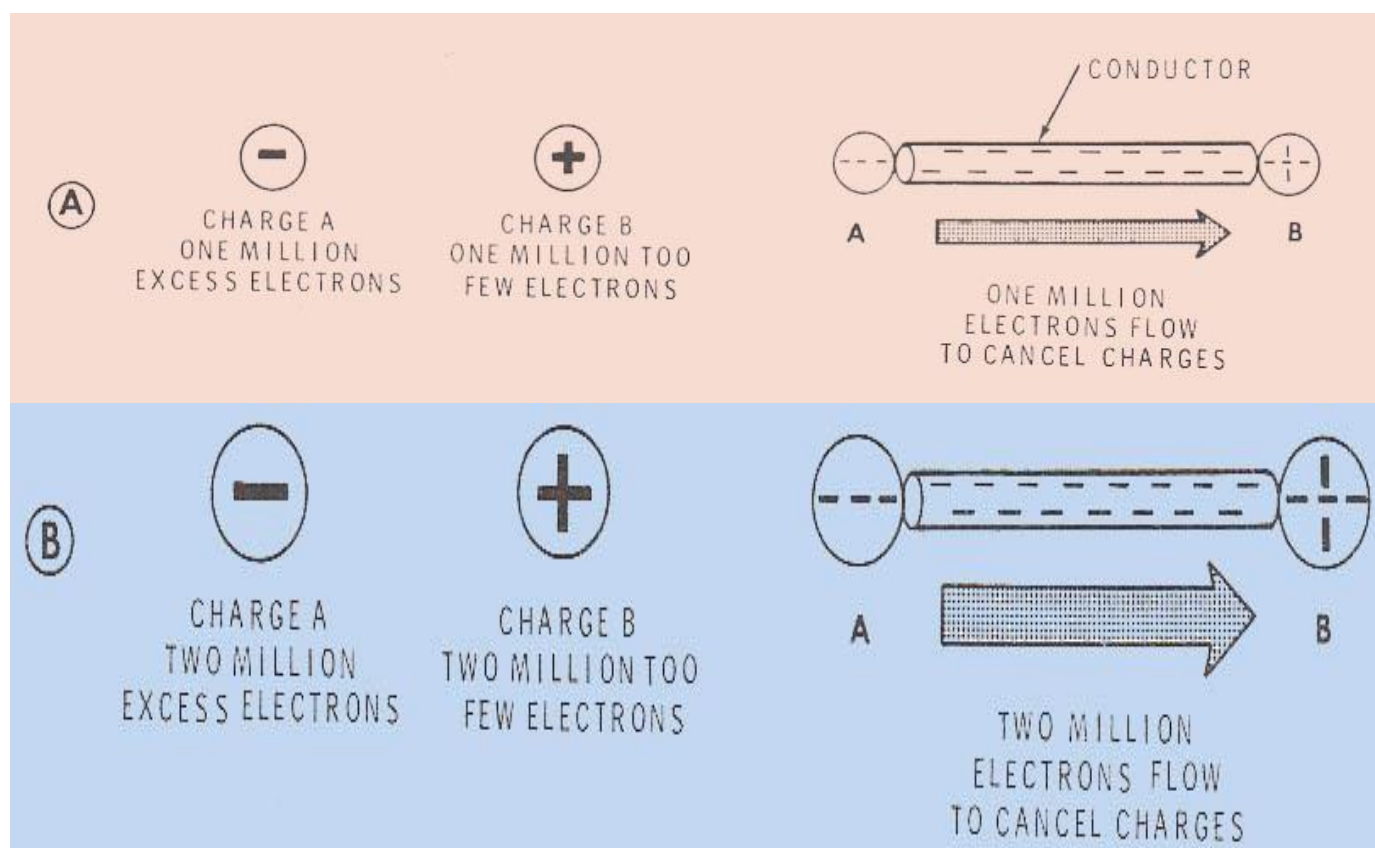


Figure 2.2: Static charges have the potential for doing work.



Visitors from all parts of the world pay a visit to Searl, to see what he is doing.

Searl can illustrate this point by considering some **static charges**. **Figure 2.2A** shows a small **negative charge** separated from a small **positive charge**. Searl suggest let's assume that **charge A** has an excess of **one million electrons** while **charge B** has a **deficiency** of **one million electrons**. If a conductor is connected between the **two charges**, **electrons** will flow from the **negative** to the **positive charge**. The work done here is the moving of **electrons**. To cancel the **two charges**, **one million electrons** will flow from **charge A** to **charge B**.

Searl says now consider what happens if the **two charges** are doubled as shown in **Figure 2.2B**. Here **charge A** has an **excess** of **two million electrons** while **charge B** has a **deficiency** of **two million electrons**. If a conductor is connected between the **two charges**, then **two million electrons** will rush from **charge A** to **Charge B**. Thus, twice as much work is done.

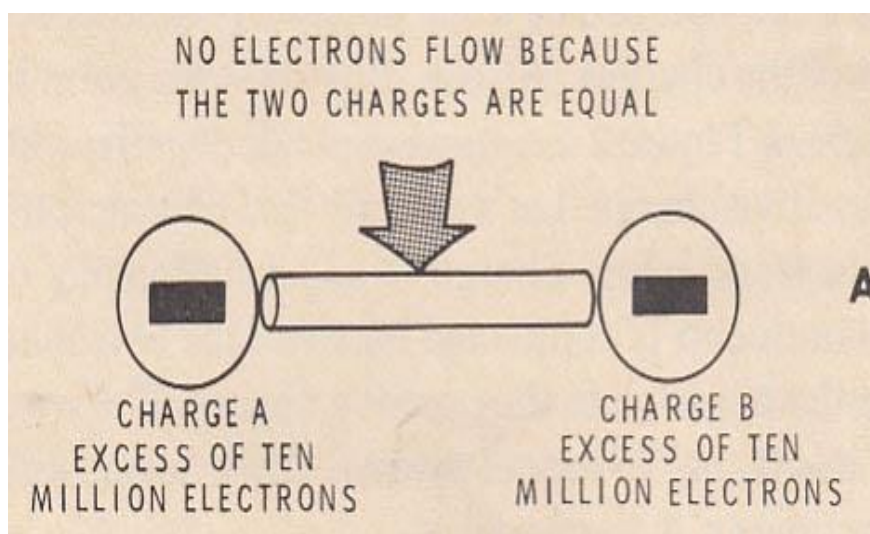
Searl will give you a break here. Can you remember this: **3000BC Abacus: 800 Modern Number System: 1697 Binary Numbers/binary code: 1822 Difference Engine: 1854 Boolean Logic: 1880 Large Scale Electric Supply Network: 1888 Radio Waves: 1945 Communication Satellites: 1993 Gene Therapy**. Yes, agree there are so many more events of success to **man's endeavour** to understand nature and its functions, so as they can copy a suitable replacement to any **failure in nature**, by **correcting it**. The **S.E.G.** will **play an important part in that growth of knowledge**.

Searl knowledge: 1946-1968: Legal: SEARL NO: 013787346: Legal: SEARLE NO: 013787451.



Visitors come and go lots of promises but no do. I always wonder where these people get their information from that they will have massive sums of hard cash in a month's time. Where: I know from years of experience in the business world that is most unlikely to happen.

Searl however, states that the magnitude of the charges is not the important consideration. As Searl points out, that it is the difference between the two charges that is important.



You internet experts never knew that I was trained in electronics. So I understood what you stated on web was nothing more than crap and it had a rotten smell to it that attracted people like flies.

Figure 2.3A: No potential for doing work exists between equal charges

Searl knowledge: 1946-1968: Legal: SEARL NO: 013787346: Legal: SEARLE NO: 013787451.



Where have these people gone? Have they gone to the Sun? Or have the marinas kidnaped them? Just to see if they know how to make the **S.E.G?**

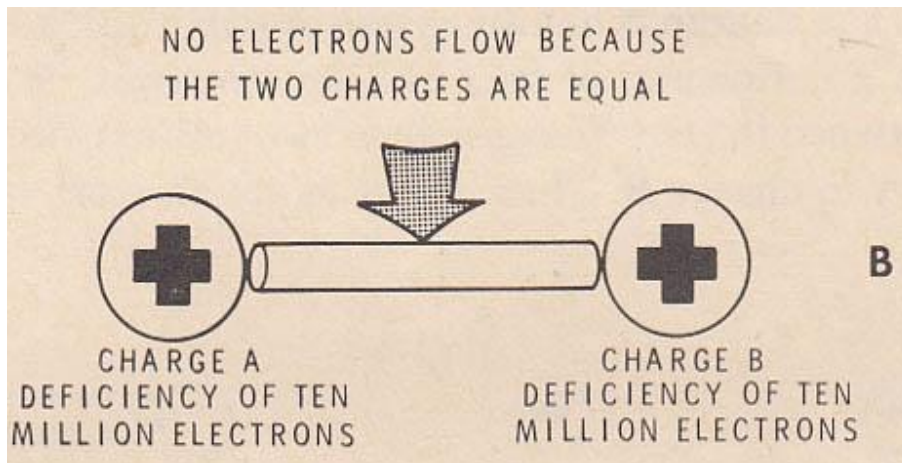


Figure 2.3B: No potential for doing work exists between equal charges. **NOTE:** that **Figure 2.3** illustrates that **no work** can be done if **both charges** have the **same polarity** and **magnitude**. **Figure 2.3A:** **two charges** are shown. Each has a **negative charge** caused by an excess of **ten million electrons**. How much work is done if these **two charges** are connected by a conductor? Searl states that the answer, of course, is that **no work** is done. Because the **two objects** have exactly the **same charge**, **no electrons** can flow from one to the other. Thus, there is **no potential** for doing work. Searl should know as he was an **electrical engineer apprentice**, at **British Electrical Rewinds Ltd. London, UK**.



Here again, **someone who is going to be a multimillionaire in a month's time**, still waiting for that to happen and it's **about 5 years ago or more now**. There are many more of them on my list.

Figure 2.3B: shows that the same is **true** for **equal positive charges**. The **potential** to move **electrons** exists between any **two unlike charges**. That is, when **two charges** are **different**, **electrons** will flow from **one charge** to the other if given the chance. **Charges** can differ in two ways. First, they can be of **opposite polarity**. This simply means that one is **positive** and the other is **negative** as shown in **Figure 2.2**: Second, they can have **different magnitudes**. For example **2.4A** shows **two charges** have the **same polarity** (**negative**) but have **different magnitudes**. **Charge A** is more **negative** because it has more **excess electrons**.

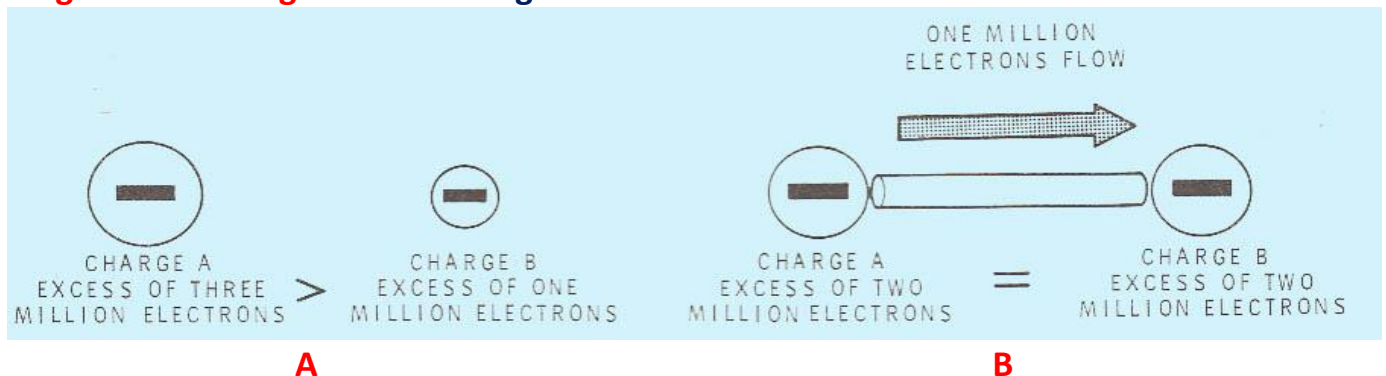
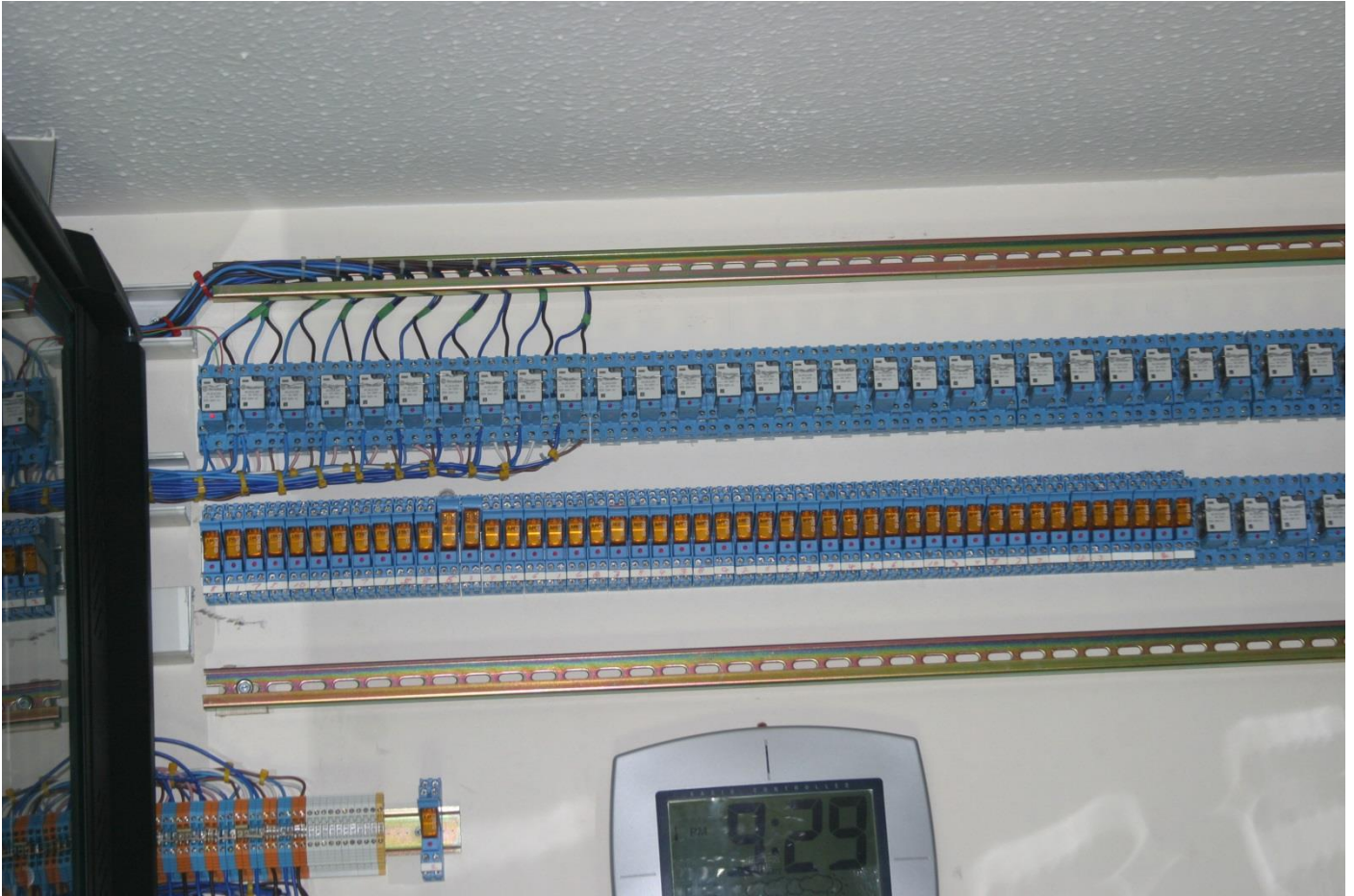


Figure 2.4: A **potential** exists between **two charges** of the **same polarity** if they have **different magnitudes**.



This photo shows the progress I was making of rewiring my equipment to replace the equipment that Peter King and his merry gang of robbers stole to the value of **£380,000.00** +. I can assure you that for my state of health and age was hard work. I forgot to state at the beginning of this section of this document that it was a **re-print** from my book released in the year **1978** with 2 differences the drawings are not coloured the same; due to having had both eyes undergo surgery and still healing, severe arthritis of the neck, hands and the other I have added photos of those I have met who have made me **promises**, but **failed to deliver**. Which I trust will be of interest to you, as to why there are **no S.E.G.s** on the market yet; even if you have a copy of that book.

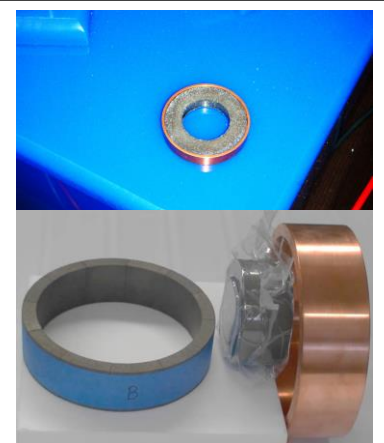
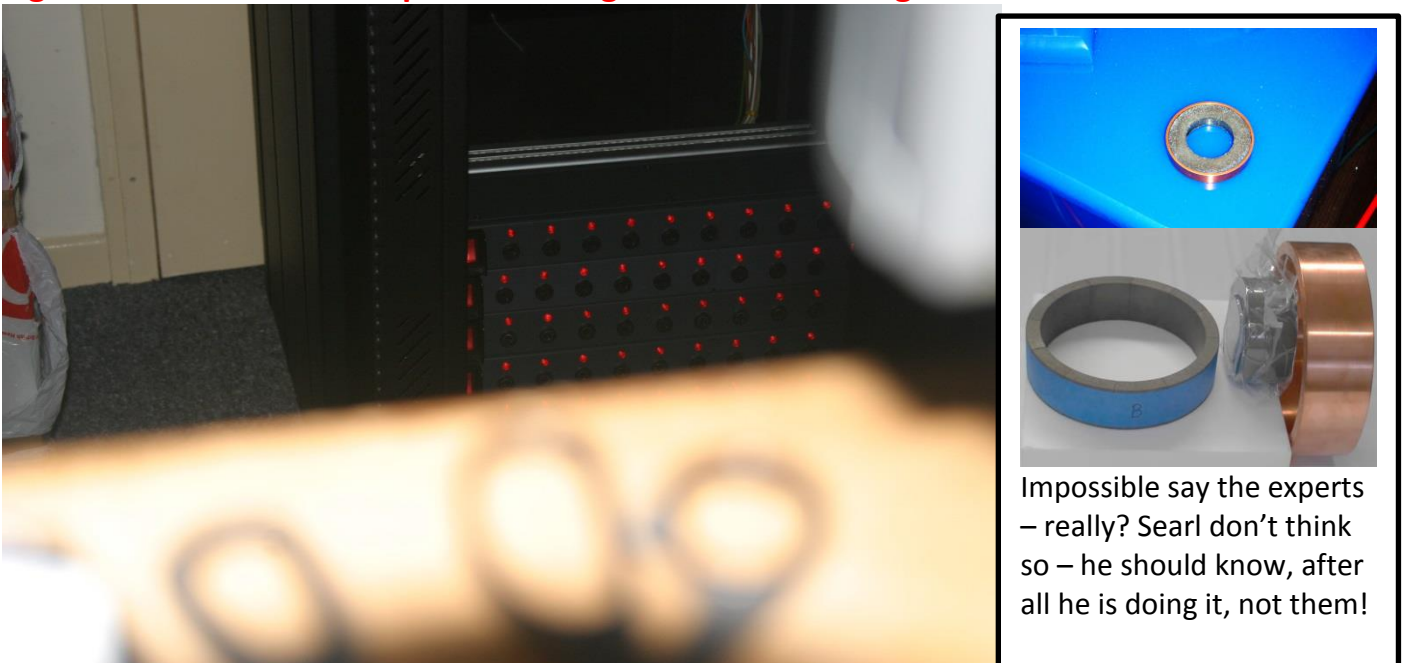
Than charge B. If a conductor; is connected between the **two charges** as shown in **Figure 2.4B**: **electrons** will flow from the **greater negative charge** to the **less negative charge**. The number of **electrons** will be exactly the right amount to **equalize** the **two charges**. In Searl example **charge A** originally has **three million excess electrons** while **charge B** has only **one million excess electrons**. To **equalize** the **two charges**, **one million electrons** will flow from **charge A** to **charge B**. **Electron flow** ceases as soon as the **two charges** become equal. Notice that the **direction** of current flow is from the more **negative charge** to the **less negative charge**. Unfortunate: a private business meeting, which I cannot disclose here, but may show photos of a couple of the **4** who came to see the demonstration of the **S.E.G.** and tour of our engineering complex. The meeting went **perfect absolutely** after **testing** the **force**, which **clearly surprised all 4 of them**.

Searl knowledge: 1946-1968: Legal: SEARL NO: 013787346: Legal: SEARLE NO: 013787451.



This is another photo of **my home in Grahame Park, London, UK**. Here are the two screens I worked my videos on. The **left one held the data** which I needed and the **right hand one** put the **video together**. When I rebuild that set up here, all those **sp switches** will be replace with **dpdt ones** which I have already brought them in the **UK**.

Figure 2.5A illustrate two positive charges of different magnitudes.



Impossible say the experts – really? Searl don't think so – he should know, after all he is doing it, not them!

Start to construct the power distribution unit for the equipment.

Searl knowledge: 1946-1968: Legal: SEARL NO: 013787346: Legal: SEARLE NO: 013787451.



Another shot of the **console under construction**, as you can see that **I work live**, you can witness that there are **50 x 240 v** at **13 amps**: available to use. Which all are used on completion of the console. **2 consoles** are used **One for the power distributing** and **safety operation** so I can repair live without having to shut down.

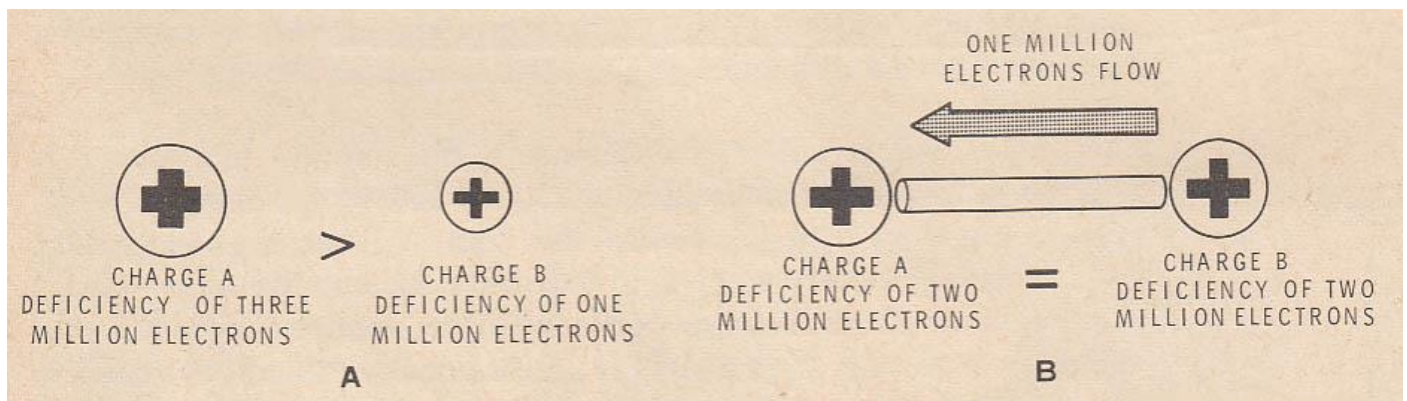


Figure 2.5: **Electrons** flow from the **less positive** to the **more positive charge**.

A **potential** exists here because **electrons** will flow if given a chance. **Figure 2.5B**: shows a conductor connecting the **two charges**. NOTICE: Those **electrons** will flow from the **less positive** (**more negative**) to the more **positive potential**. Again, the number of **electrons** which flow is the amount necessary to exactly balance the **two charges**. Searl hopes that this discussion is interesting to you and helpful.

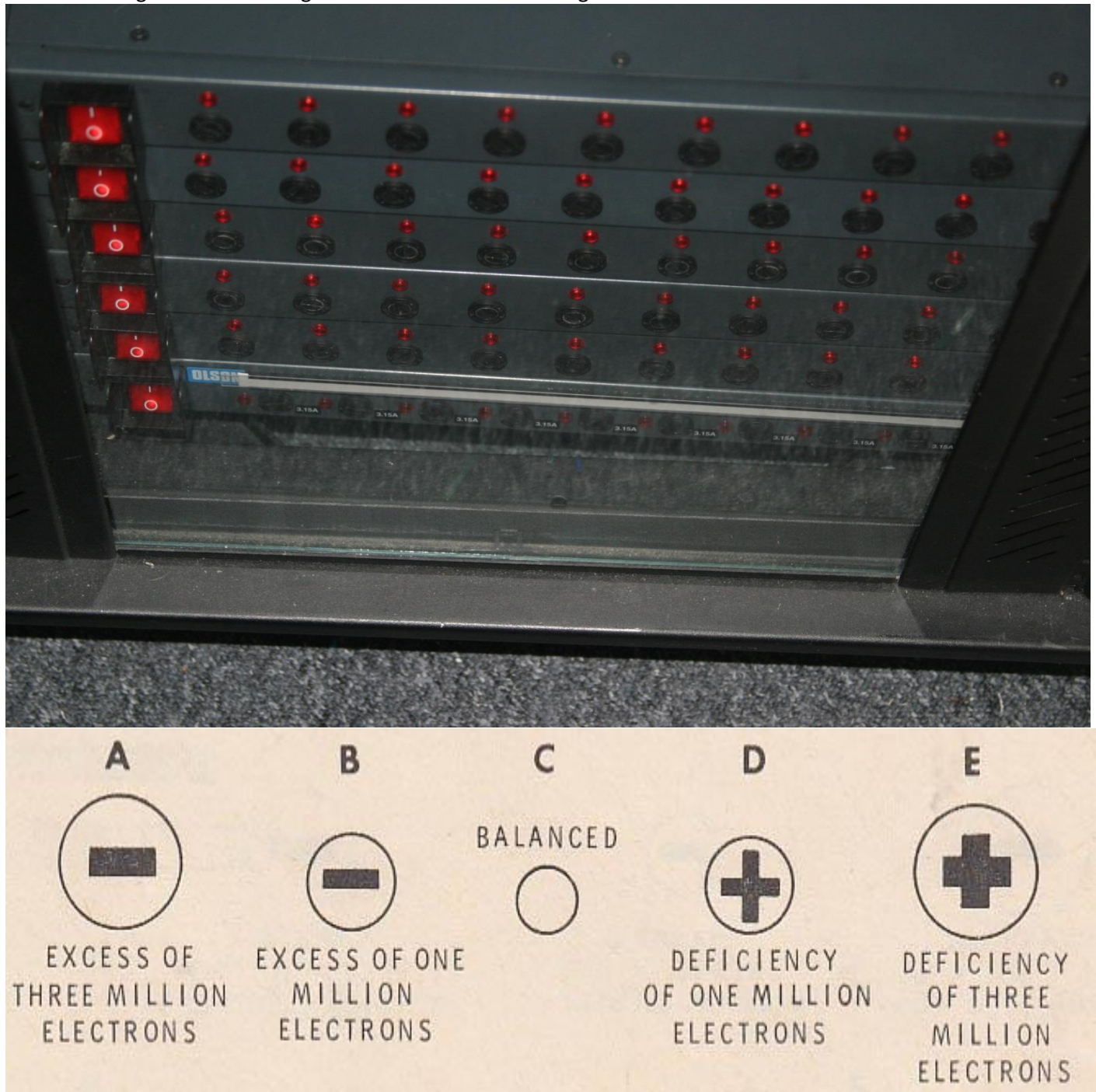
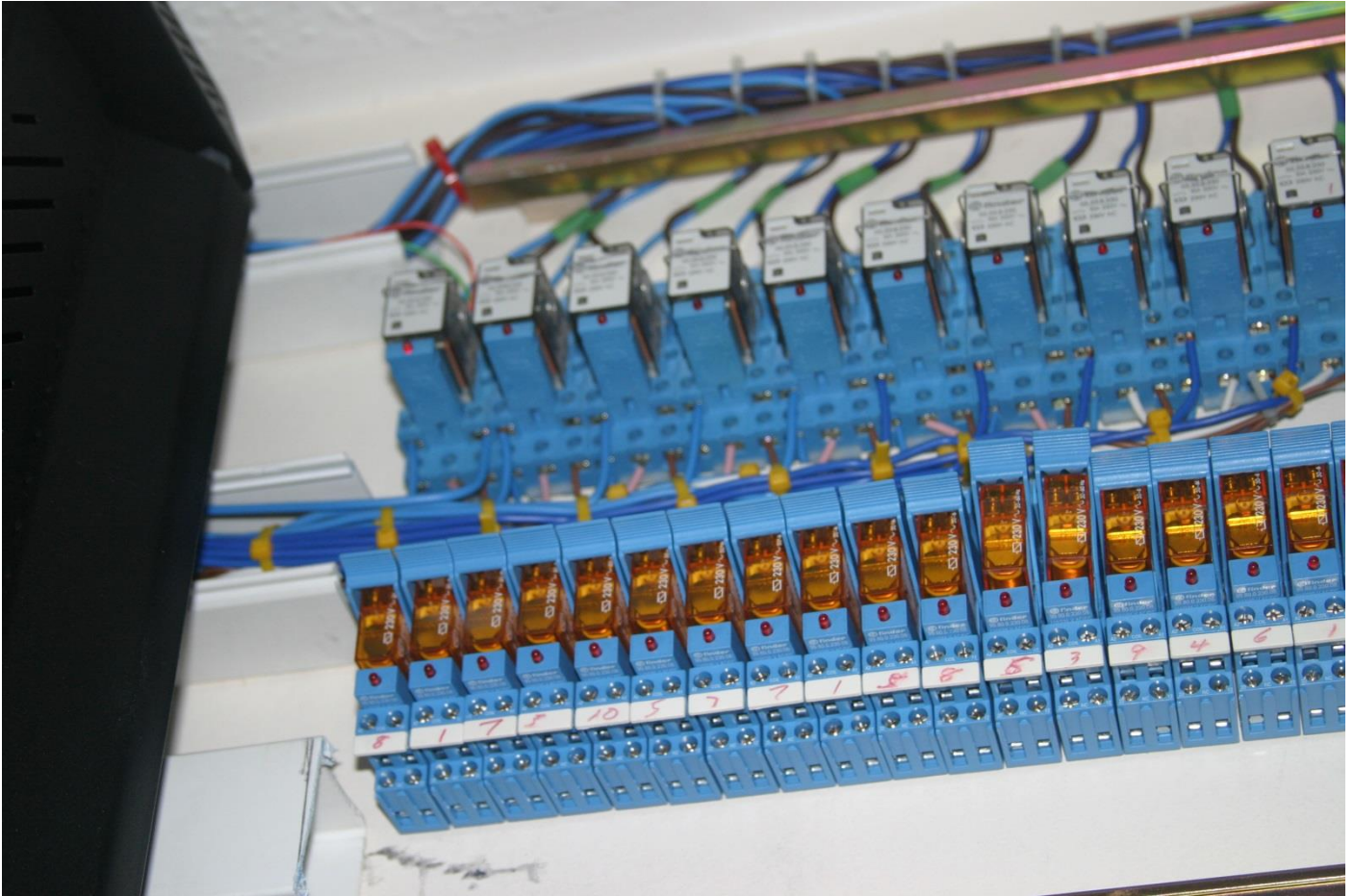


Figure 2.6: Five Levels of charge at various levels of charge. Searl says that since **no two** are at the same charge level, a **difference of potential exists between any two terminals**. Consequently, if a conductor is placed between any two terminals, **electrons** will flow until those **two charges** are balanced. **Notice** that **terminal C** has **no charge**. That is, it contains the same number of **electrons** as **positive ions**. Nevertheless, if **terminal C** is connected to any other terminal, **electrons** will still flow. If it is connected to one of the **negative terminals**, **electrons** will flow into **terminal C**. If it is connected to one of the **positive terminals**, **electrons** will flow from **terminal C**. Searl states remember that **electrons** always flow from the **more negative** to the **more positive terminal**. **This is important to understand the S.E.G. functions, as Searl is coming to that issue.**



Here is **another photo of what I will have to re-build here again**, which I have to use for **LEGAL reasons of operation**. Thus this **construction** must be **professional** in looks and **operational layout for maintenance**. I must admit that the **5 years of testing in the UK** there were **no malfunctions** with the **wiring** or **equipment attached to it**. I wired it then and I shall wire it again.

VOLTAGE:

Searl informs you that another term which is often used interchangeable with **emf** and **potential difference** is **voltage**. Searl states, however, strictly speaking there is a **difference between voltage and emf**. **Voltage is the measure of emf or potential difference**. For example, the battery in your **car** has an **EMF** of **12 volts**. A small **S.E.G.** could replace that. The **emf supplied** by wall outlets is **115 volts** while that required by most electric stoves is **220 volts**. In FACT, such a power unit is being developed in the **U.S.A.** Termed the **S.E.G** that is being planned for an **emf** of **240 volts** with a **capacity** of **15Kw**. A **large screen colour TV receiver produces** an **emf** at one point which may be **25,000 volts** or **higher**. **High tension power lines** often have a **difference of potential** as high as **500,000 volts**. A **S.E.G.** appears feasible that would match that **emf output**, but it would be **extremely heavy** and **costly** to **construct**, but the **cost would be reasonable as no fuel cost or maintenance** would be required, and it would be expected to run **24 hours a day 7 days a week** nonstop for hundreds of years. Searl has no doubt such units will appear but not in his lifetime now. Of course there is no reason why **S.E.Gs** cannot be design for any **emf** that is required.

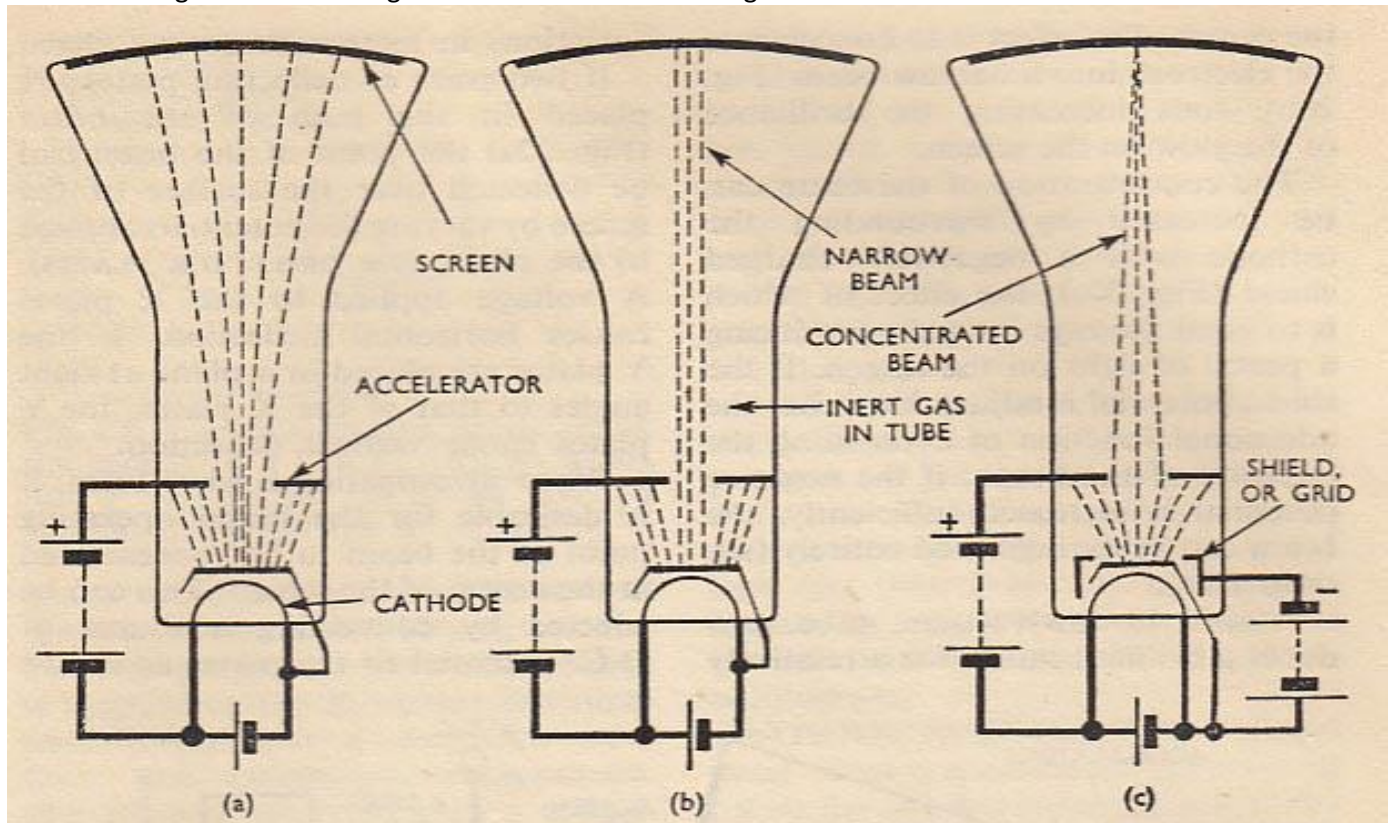


Figure 101.20: This was my world: **cathode Ray Tube**, from the **old 9 inch** right through to the big boys of the **2010**. Principles of electron emission in a cathode ray tube: (a) a proportion of the electrons passes through the aperture in the positively charged accelerator to impinge on the fluorescent screen. In a soft-vacuum tube focusing is achieved (b) by the release of positive ions from an inert gas, and (c) by the additional effect of a negatively charged shield which surrounds the cathode.

The unit of emf or potential difference is the volt. Searl states that at this point it is difficult to visualize exactly how much emf constitutes one volt. Searl states; however, as you work with electronics, this point will become clearer. Searl quotes that one volt is the magnitude of emf which will cause one unit of energy or work to move one coulomb of charge from one point to another. Searl reminds you that the **metric unit of energy** or work is the joule. Searl points out that this unit is equally difficult to visualize since it is defined in other unfamiliar terms such as **newtons**. Searl is please however, **joules** can be expressed in the more familiar English units. For example, **one joule** is equal to **0.738 foot-pounds**. Searl says that a **foot-pound** is the amount of work required to lift **one pound one foot**. Thus, a joule is approximately the amount of work required to lift $\frac{3}{4}$ of a pound one foot off the ground.

Searl says using this information, let's return to the volt. One volt is the **emf** required to cause one joule of work to move one coulomb of charge (**6.25×10^{18} electrons**) from one point to another. Some of you may wonder what **10^{18} means**. = **1000000000000000000**. There is nothing wrong if you never knew that, nor did I before I learnt what that meant. Shortly; I shall give you some questions to answer, to show that you studied the subject. Page 466©



Photo: of the components by which I can rewire my equipment, so I can get back to real work.

Searl says, to look at it another way, when the movement of **one coulomb** of **charge** between **two points** produces **one joule (or 0.738 foot-pounds)** of work. The **emf** between the **two points** is **1 volt**. Later on, after Searl have discussed **resistance**, Searl will define the **volt** in terms of **current** and **resistance**. It will be much easier to visualize then.

The abbreviation of **volt** is **V**. Thus, **1.5 volts** is abbreviated **1.5V**. As with **amperes**, metric prefixes are attached to indicate smaller and larger units of **voltage**. Thus, **one millivolt** equals **1/1000 volt**, while **one microvolt** equals **1/1,000,000 volt**. Also, **one kilovolt** equals **1000 volts** while **one megavolt** equals **1,000,000 volts**.

PROGRAMMED REVIEW:

This **review** is **presented** in a **programmed instruction format**. It will enhance your understanding of the material presented in this section. Searl ask you to read each of the numbered lines carefully and fill in the missing blanks at the end of each line.

No cheating, asking your friend to answer them for you, just because you got a date.

QUESTIONS:

- 1 A force or pressure exists between charges as a result of Coulomb's law. This law states that like charges repel and unlike charges attract. Electrons have a negative. Consequently, they are repelled by negative charges and are attracted by _____ charges.

- I have to admit that I am utterly confused who actually prove Coulomb's law. One official statement gives – 1850 – 1855 = 5 years there is no way a child could had defined such a law. Another statement quotes Charles Augustin de Coulomb (1736 – 1806) which means he was dead when that law was accepted. He was a French physic and inventor at least that make sense; if he is the right man.**

- 2 The force which causes electrons to move is given several names. One name is electromotive force and is abbreviated _____

- 3 Although this is the force which causes electrons to move in a circuit, the force can exist without the movement of electrons. For example, a battery which has been removed from a circuit still has an emf between its terminals. Therefore, emf can be thought of as a potential for producing the movement of electrons. Because of this, another name often given to emf is _____ difference.

- 4 Often the name potential difference is turned around and called a _____ of potential.

- 5 A difference of potential exists between any two charges which are not exactly alike. Figure 2.6 shows five terminals each of which is at a different potential of state of charge. Terminal A has the most negative charge while terminal E has the most positive charge. Therefore, the greatest difference of potential exists between terminals A and _____.

- 6 If a conductor is connected from charge A to charge E, electrons will flow from A to E until both charges are neutralized. Therefore, _____ electrons will flow from A to E.

- 7 It is important to remember that even an uncharged body has a difference of potential with respect to a charge body. Thus, although terminal C is electrically neutral, it is more negative than terminals D or E. Also terminal C is more positive than terminals ____ and ____.

QUESTIONS:

- 8** An emf exists between two unequal negative charges. For example, charge A is more negative than charge B. Or stated another way, charge B is more _____ than charge A.
- 9** Consequently, if a conductor is connect from A to B, electrons will flow from the more negative terminal to the more positive terminal or from _____ to _____
- 10** A difference in potential also exists between two unequal positive charges. For example, Charges D and E are both Positive but charge _____ is more positive.
- 11** An emf exists between these two charges. Emf is measured in volts. Thus, voltage is a measure of potential difference or _____
- 12** A volt represents o0ne joule of energy (or work) per coulomb of charge. Don't worry that this magnitude of emf is difficult to visualize. As you continue your study in the units that follow, you will develop a better understanding of this quantity. As you will see later, the volt has a very simple relationship to the ampere.

PRODUCING EMF:

Emf is produced when an **electron is forced from its orbit around the atom**. An **electric pressure** exists between the **free electron** and the **resulting positive ion**. Thus, any form of energy which can dislodge electrons from atoms can be used to produce an emf. In no case is energy actually created. It is simply **changed to electrical energy** from other forms. For example, a battery converts chemical energy to electrical energy while a generator converts mechanical energy to electrical energy.

There are **six common methods of producing emf**. Each has its own applications. Searl say let's briefly discuss each of these.

MAGNETISM:

This is the most important method of producing electrical power in the world today. But in **1946**, that was not the case. The first encounter with electrical energy was at **Russell Cotes Navy School**, in **1944**. At our present level of **technology** (**1974**), it is the only method which can produce enough electrical power to run an entire city. Searl accepts that **well over 99 percent of all electrical power** is produced by this method. Remember that searl started his study on what his dreams meant. Thus by the end of **1946** had a good **understanding** as to they **meant**. Without knowing that **magnetism**, which he chose was the **best solution**, for the **investigation** he was about to embark upon.

Searl knowledge: 1946-1968: Legal: SEARL NO: 013787346: Legal: SEARLE NO: 013787451.

The principle behind this technique is quite simple. When a **conductor is moved through a magnetic field**, an **emf is produced**. This is called **magnetolectricity**. The **force** of the **magnetic field** and the movement of the conductor provide the energy necessary to **free electrons** in the **conductor**. If the conductor forms a **closed loop**, then the **electrons** will **flow through the conductor**. Yes, the **experts** on the **web keep up** their **insanity** that the **S.E.G. cannot work**, that it is a **con**. If there is any conning it is them conning the public what great experts they are – Searl agree of BS.

S.E.G. consists of **66** roller sets constructed of **528 segments**, made up from **2,112 materials**, and **462 layers** which are **not magnetic** which in **each roller set** there are **8 magnetic layers = 528**. As each roller set are **complete circular rods**, they must be a closed **conductor system**, while at the same time they are an **open system in function**. Any roller jerks, then there must be an **emf generated**. **So these experts need to go to school to learn what a boy of 14 years understood. Now they may shut up.**

To construct a S.E.G. you need a mass created from some materials. But what materials which you are intending to use? What quantise for the materials selected? Let us assume that the following materials are available for our selection – (1) Mb-Hi: for this material you decide to use 5 grams, (2) C-Ti: for this material you decide to use 25 grams. (3) Nd-Ni: for this material you decide to use 30 grams. And finally – (4) V-W: for this material, you decided to use 50 grams.

Now that you have made your selection of **materials** to create the object = MASS. Now what are your intentions? What is the **power output** which you seek to produce? First problem how does this **generator function**? Does it meet **Sir Isaac Newton's rules**? What does **Sir Isaac Newton's second law** states?

I like to point out a simple experiment, which was done on BBC film studies: One actor dress up to look like an ordinary man, standing on a busy street in London. Making the following offer “£10 note, for one of your £1 note” In 12 hours not one person accepted his offer. WHY? Because they thought that those £10 notes were faked. That is precisely what people think of the S.E.G. because the energy is free it has to be a con, as nothing is free in this world – yet there is – AIR – WATER in some areas are still available free.

So you decide that you're going to make a **S.E.G.**, or by any other name; should look like the **S.E.G.** That is; it contains rollers running around a magnetic material as a perfect circle; but how? What diameter will your roller be? What length will your roller be? All this will be vital **information**, for success. Not only that; there is another problem which is what will be the diameter of the plate, upon which those rollers have to operate? Plus the fact that its height has to be set correct for the rollers to function if all other characteristics are correct. Then there is the magnetiser, a vital component, just not any old one will do.



Saturday 8th November 2014; four members of a company visited our lab, to discuss a possible **contract for 1000s of 1 megawatt S.E.Gs**. With: other future orders pending. I have been requested not to make it public, so sorry I'm not allowed to say if it's **military** or **civilian**. Whichever it is, there will be lots of **legal paper work to be done** before the **contract is finalised**. It has already taken over a year to deal with the **legal issue** of the **Searl Foundation**, with yet **more legal papers to sign** which is **expected at this time** to be either the **9th** or **10th** of **December 2014**. That **means more cost to meet**.

So you are going to construct it in your bedroom – **REALLY!** That is interesting to know. From Searl point of view, such a **device** could **never work simply** there is **no order** to the **chaos** which you have **introduced here**. You have **no idea** what **you are saying on the internet**. Thank you: **Richard Branson** for that **support** that they are **ill responsible people who create more harm than good**.

Sir Isaac Newton made the **position absolute clear** within his **second law**, to which the **S.E.G. meets each condition** as **defined by Sir Newton's second law**. Which: has nothing to do with **heat engines**, as you people apply. It is all about **forces acting** and their state either 1 or 0, yes the force can be greater than >0 . In the S.E.G. the force = 5 starts the other forces to switch from = 0 to = 1 once momentum switches from = 0 to = 1, most other forces switches to = 0, except velocity and direction which remains at = 1 as long as drainage = 1. Once the drainage switches to = 0, then $v = 0$ as the S.E.G. **is now ideal and** runs at cruising speed which is control by the sum of the square which it has been constructed from. This frequency blocks the S.E.G. from stopping. As: I have no need to repeat the Second law of Sir Isaac Newton, as I have already done that here in this document.

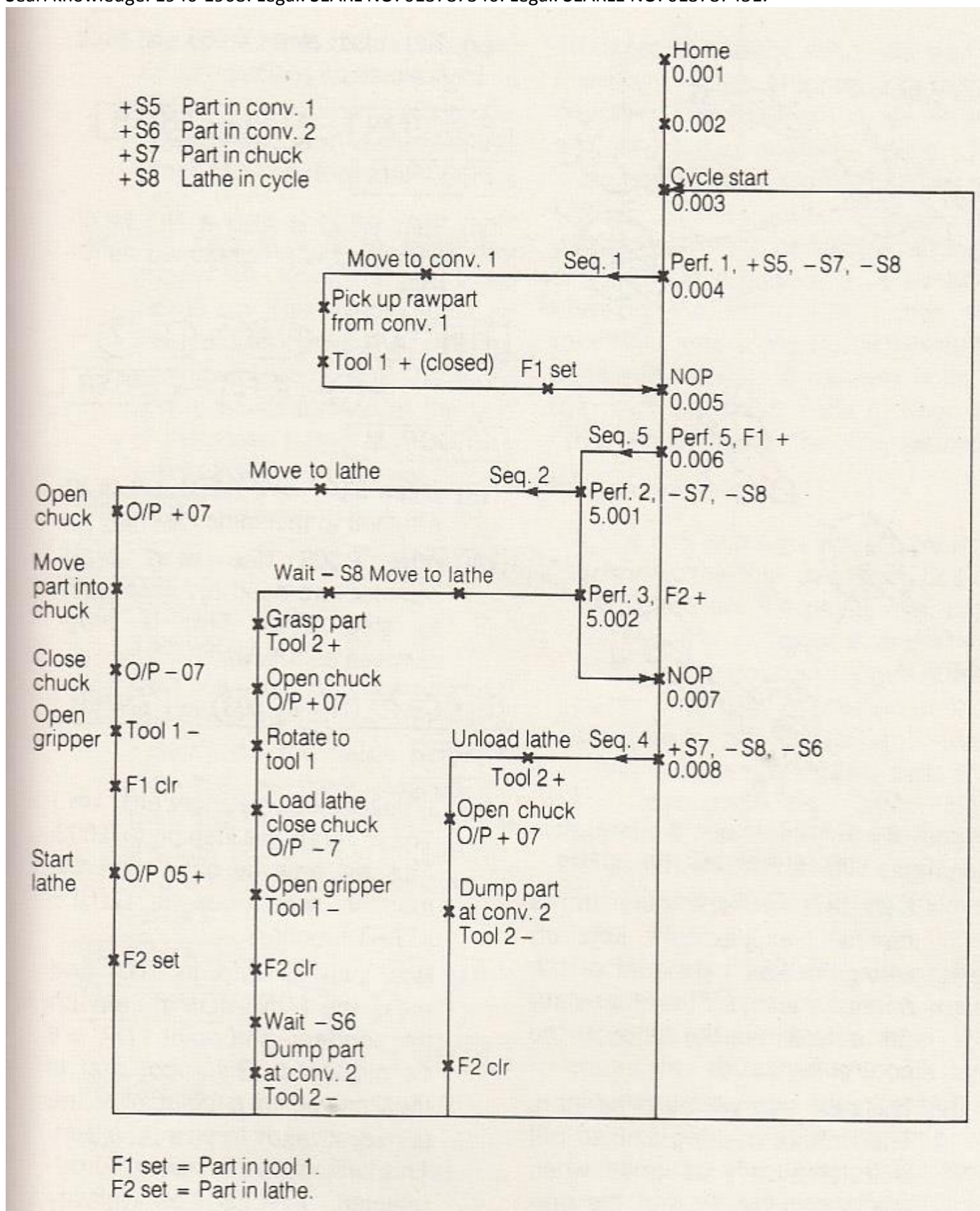


Figure OU5.5: A line diagram of the same program as in **Figure OU5.4**, but using a double gripper. This is a small part of my **educational training** with the **Open University Flowerbower**. Where your **education came from: the toilet**? This is what I am expecting to do at **Searl Global Technologies R&D** being done in **SMI San Diego, California, U.S.A.**
 Page 472©

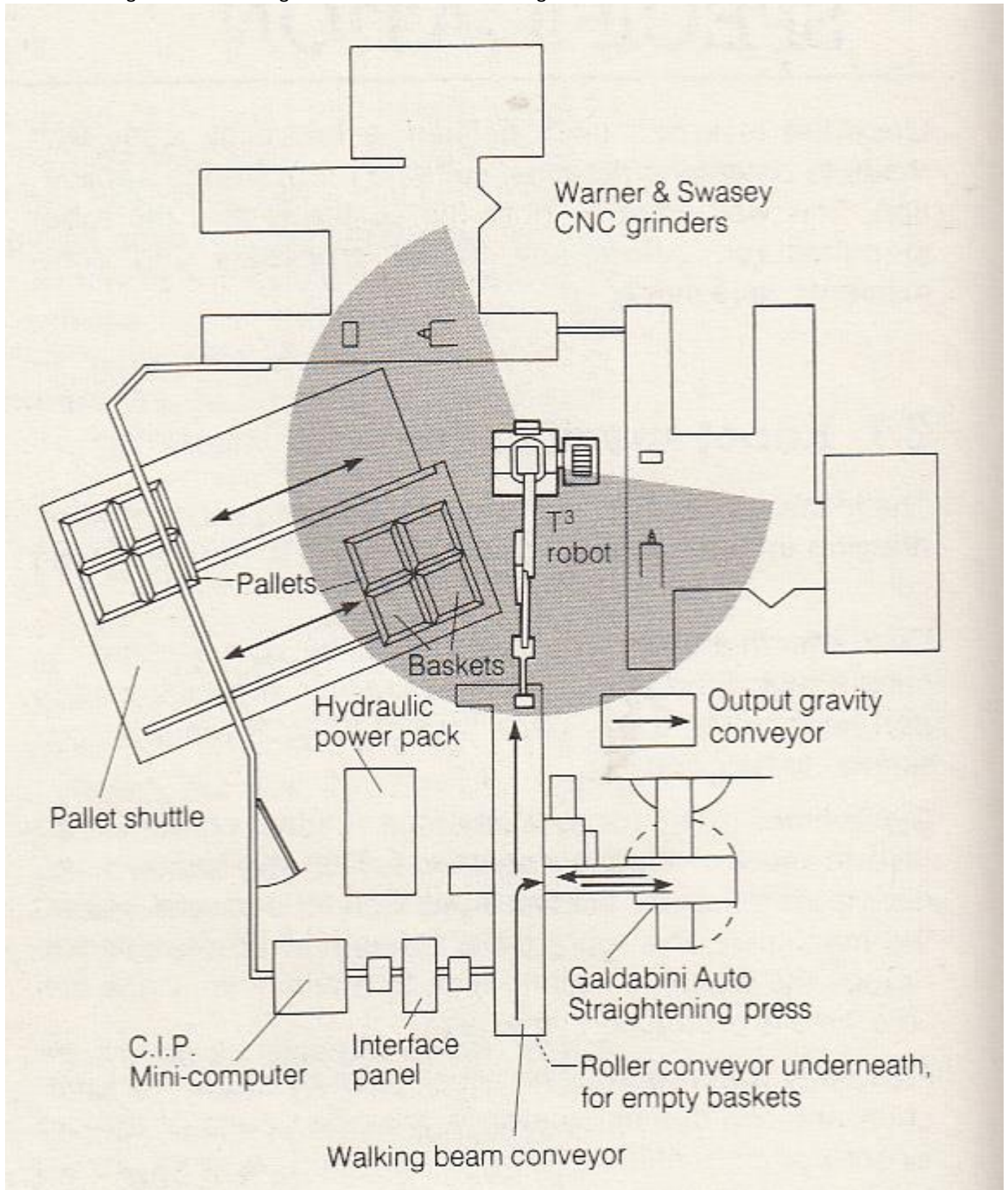


Figure ou3.1: Plan view of cell: Designing the cell will be a vital issue for **Searl Global Technologies**, to get the **functions** for **success is critical**. This is a part of **Searl education** which was obtained through the **Open University training programs**. The **robotic world** is a **fascination world of Searl**. It is the **difference** between **success** and **failure Flowerbower**; which appears to be **outside of your capabilities** which you based upon **YouTube**.

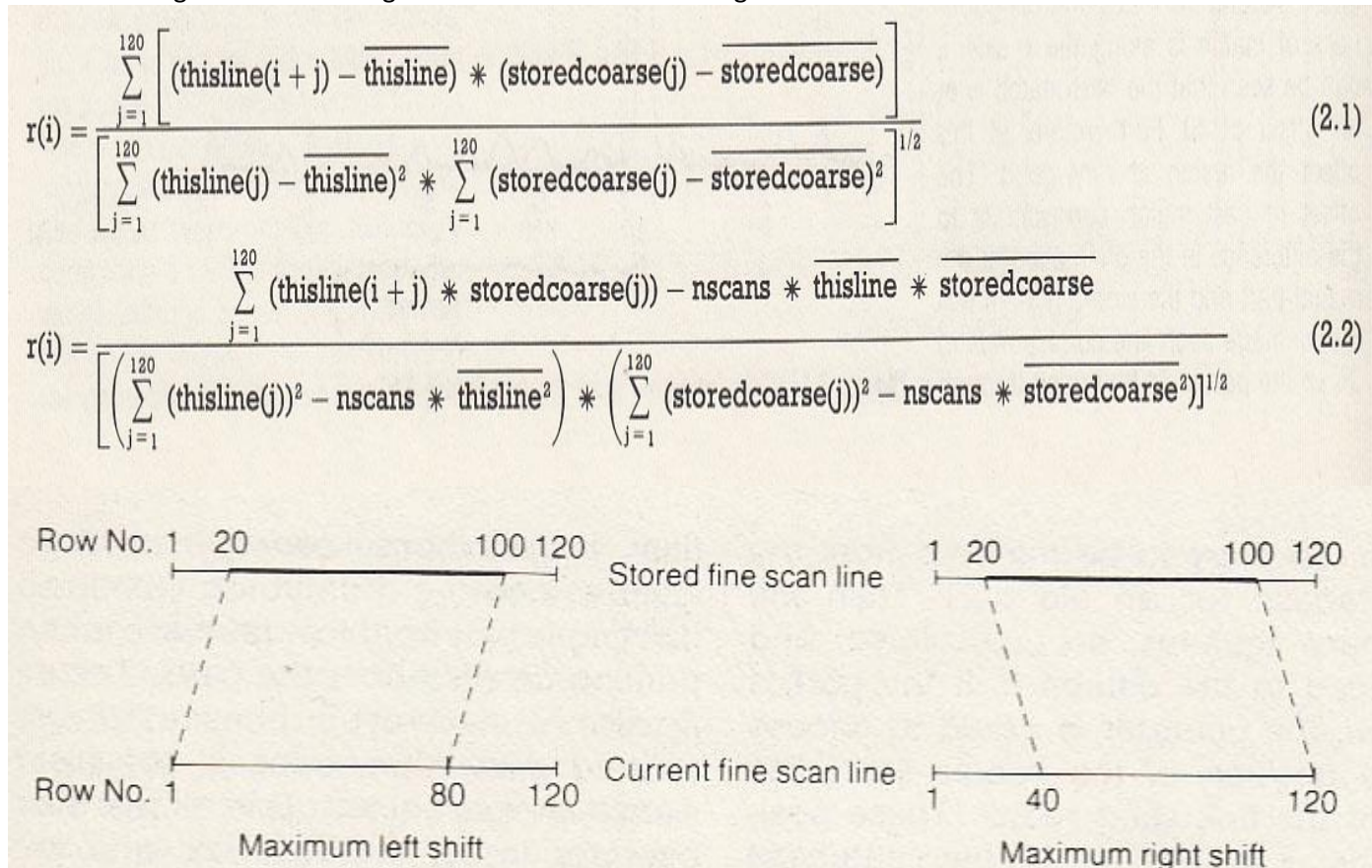


Figure OU2.13: Offset limits of fine scan correlation: This is **one of my studies** with the **Open University**, thanks to the **BBC program** which brought them to my attention. I may have taken these studies a bit early, but then I never expected to be **robbed by my brother** and **his gang**, which has **delayed progress**, add to that **problem materials** and **equipment** has also **changed, including their costs**.

20 Match each of the following applications of electricity with the effect which causes it:

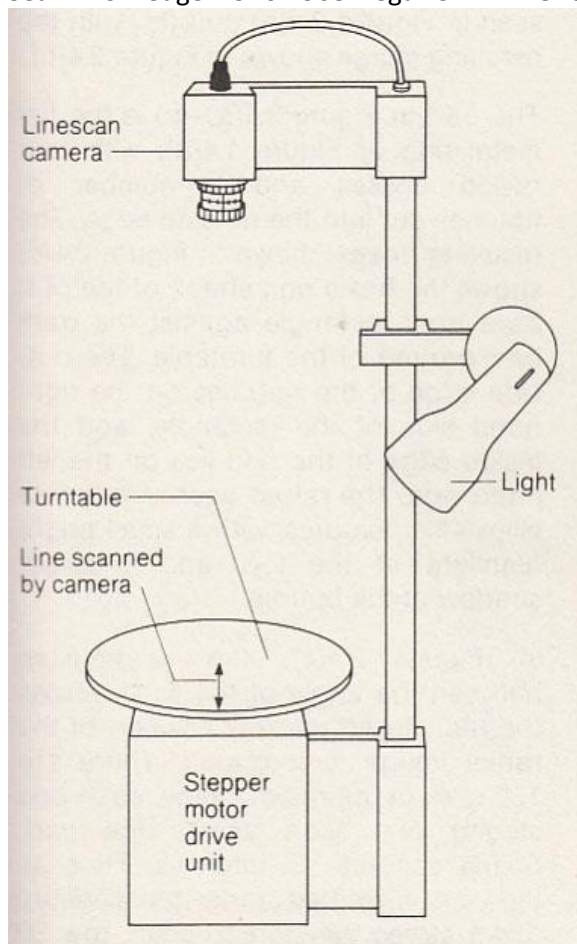
Application	Effect
1. Battery	A magnetoelectric
2. Generator	B piezoelectric
3. Crystal microphone	C thermoelectric
4. Thermocouple	D electrochemical
5. Solar cell	E photoelectric



Sorry to have to state that the remaining space here cannot support the next question.

1774: Oxygen and **Carbon Dioxide**: English chemist and theologian **Joseph Priestley** proved that plants take in a gas those animals give off (**carbon dioxide**) and that plants give off a gas that animals take in (**oxygen**). Again the **law of the squares is correct**; there are always two opposites in nature.

Searl knowledge: 1946-1968: Legal: SEARL NO: 013787346: Legal: SEARLE NO: 013787451.



Today, I just received this information. U-T San Diego, Tuesday, November 11th 2014 Heading SOLAR TURBINES MUST PAY SDG& E CHARGE. San Diego based solar turbines, a subsidiary of Caterpillar, failed to win an exemption from utility surcharges applied when the manufacturer began recycling energy it once threw away, under a ruling Thursday by State regulators.

Solar Turbines makes industrial sized turbines that burn natural gas to generate electricity. In 2002 the company began recycling wasted energy generated during turbine test runs, only to encounter new surcharges from San Diego Gas & Electric.

Now do you believe me about the UK charging me for using free energy and not theirs, for right here, in San Diego is the same problem? But in the UK I won my case.

My first medical lesson was that people never believe the truth, because lies are more exciting than the truth. As young children we learn to lie to protect ourselves from being punished by our parents or teacher, for something we done.

Figure OU2.1: An image acquisition station. This is all about the operation of the visual orientation device. This represents a very small part of **my education Flowerbower**. Searl accepts that today such **equipment** will even be **more exciting to use**, than those I used in my days, now long gone. Remember that **yesterday's technology gave birth to today's technology, without that technology, happening today's technology would not have existed.**

- 18** Certain materials will produce an emf when they are subjected to a bending or twisting pressure. The crystal microphone and phonograph pick-up use this effect. It is called the _____ effect.
- 19** Finally, a small voltage can be produced by the thermoelectric effect. The thermocouple works on this principle to produce an emf which is proportional to the temperature to which it is subjected. The thermocouple is nothing more than two pieces of dissimilar metals joined together. When heat is applied to the junction a small emf is produced. Thus, the thermocouple converts _____ to electricity.
- 2014:** Discovery of Earth like planets continues with over 600 alien planets have been discovered. Searl says could any of them be similar to Earth? He has doubts, as the Earth appears to be a very rare planet, which we should be caring for our home.

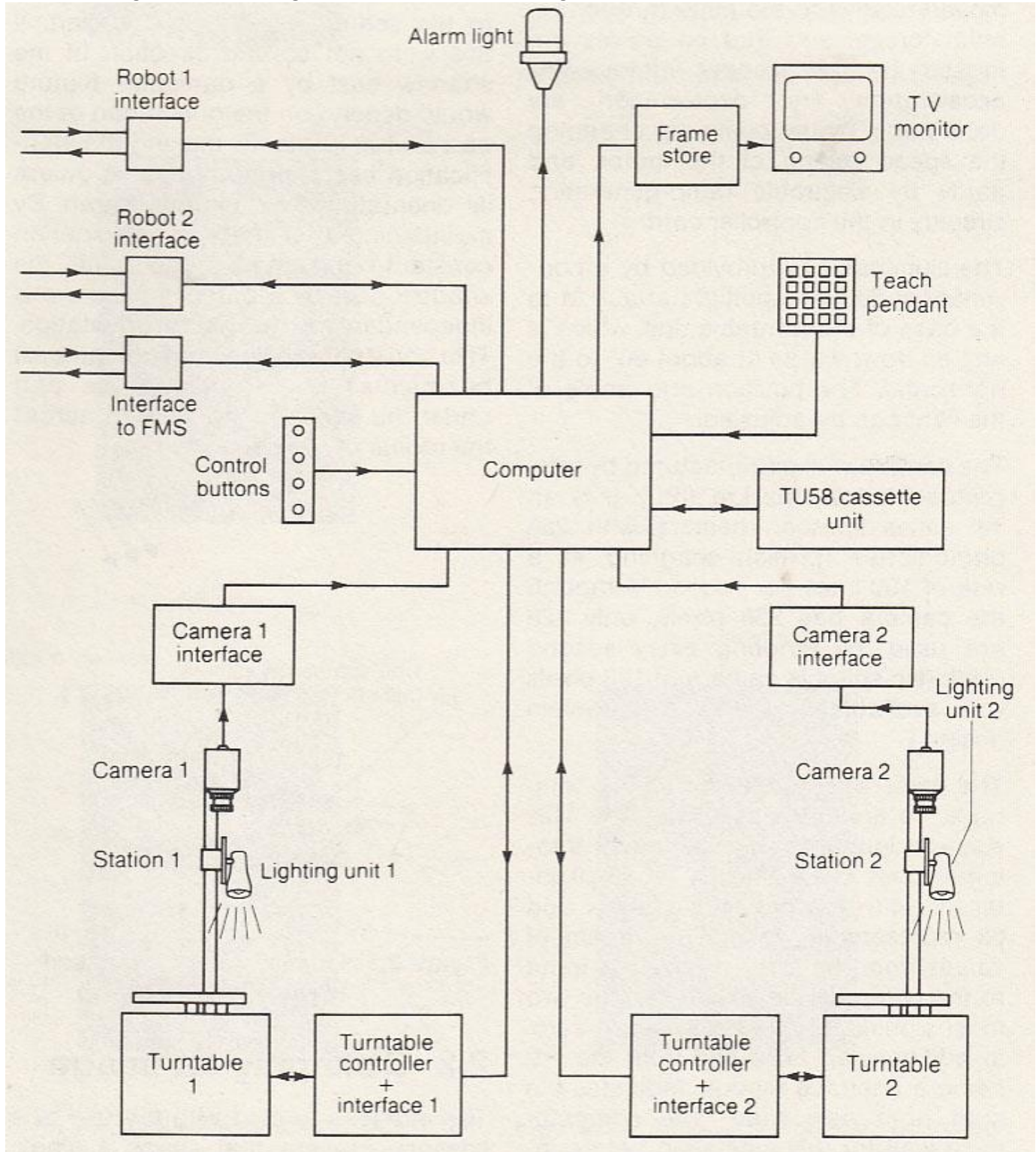


Figure OU2.2: Links between the image acquisition stations and the rest of the system. This is yet another proof of **Searl education PT615 CS, Flowerbower**. This still will apply to **Swallow Command audio –vision – communication division** of **Searl Aerospace Corporation**; a **section of Searl Global Technologies**. This was indeed an **extremely interesting course**, I have no idea if such course still operates, have to check it out; it may not today, due to cost of equipment in running it. If it has ceased, it is a shame. Young students should aim for that **knowledge base** and **skills, which is the future that is meant to be**.

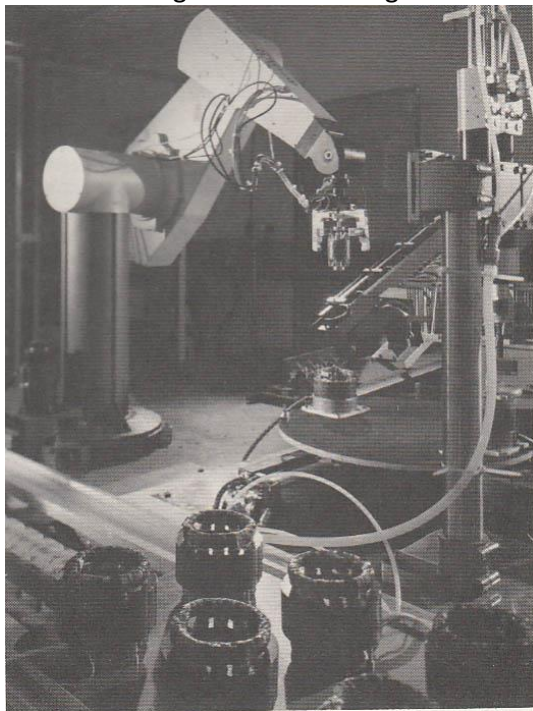


Figure 1.3: Puma using a special gripper:

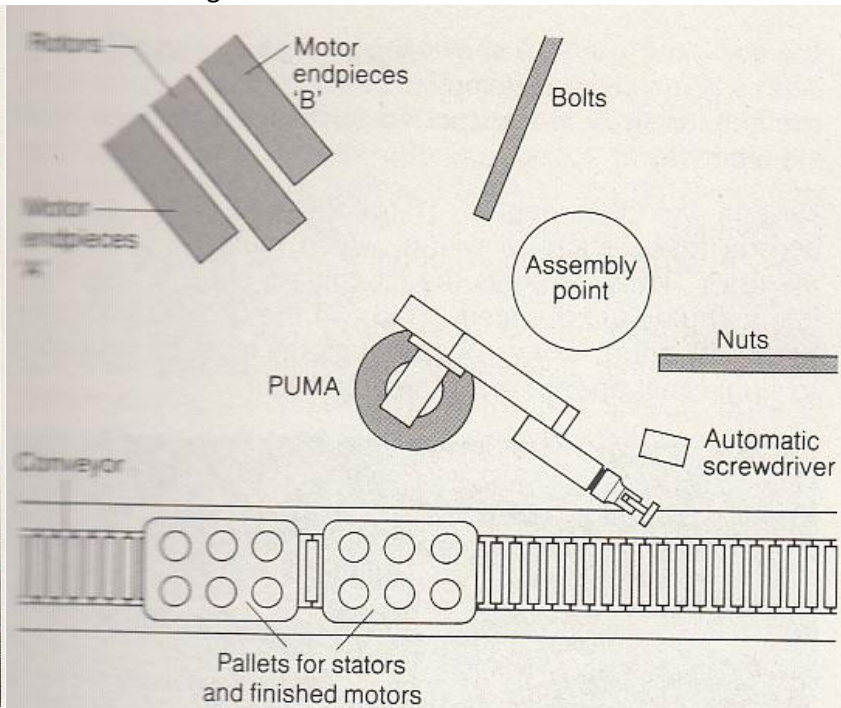


Figure 1.4: Plan view of a possible layout.

This is the best picture I can find in a short time of the robot I had to train on for 10 months in my home. That was some baby to learn from. Part of **my course: PMT606/PT615 3 Robot systems**, of that time.

- 14** This effect produces an emf when a moving conductor cuts a magnetic field or when a moving magnetic field is cut by a conductor. Thus, in addition to a magnetic field and a conductor, there must be relative _____ between the two.
- 15** Batteries use a chemical reaction to produce emf. Two electrodes of different types of metals are placed in a solution which reacts with the metals. Electrons are pulled from one electrode leaving a positive charge while positive ions are pulled from the other leaving a negative charge. The solution which reacts with the metal electrodes is called the _____
- 16** Another device which can produce an emf is the solar cell. It utilizes the _____ effect to produce a voltage.
- 17** The earliest known method of producing electricity is by friction. While this method has a few practical uses, electricity produced in this manner is usually a nuisance. It causes lightning, fires, and static on radio and TV. Electricity produced by _____ is attributed to the triboelectric effect.

1669 Fossils are fossilized single celled organisms that are 3.4 billion years old are the oldest known fossils on Earth. Some the stuff on YouTube by people of about the same age!

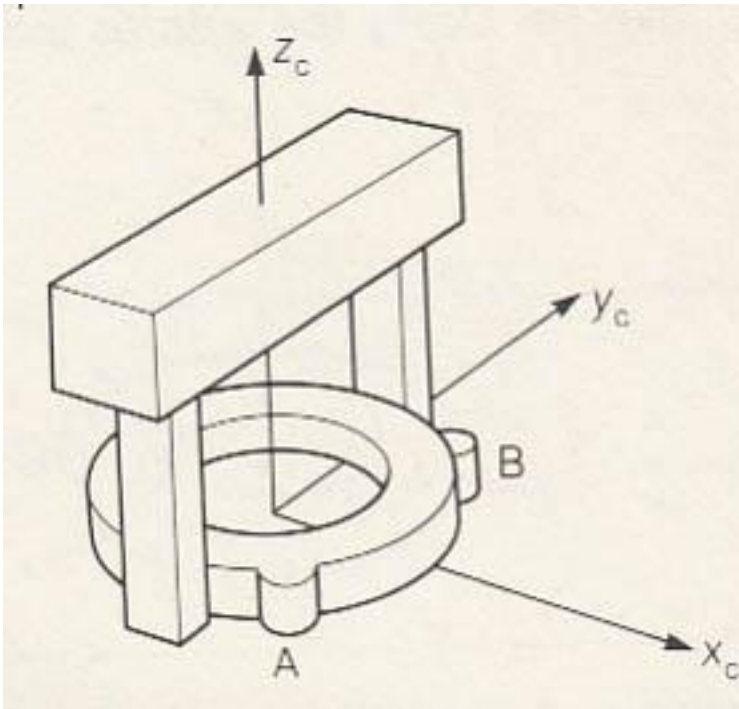


Figure 1.2: Gripping the casting.

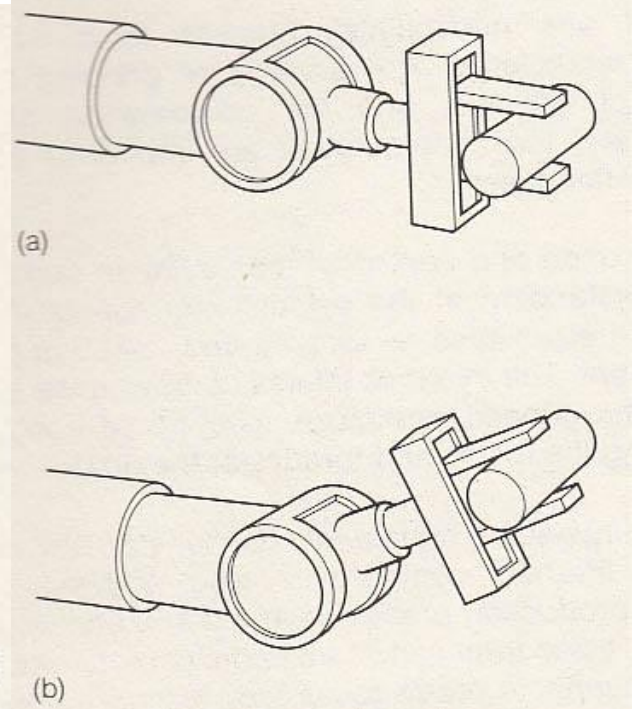


Figure 1.3: (a) Straight.
(b) Bent wrist configuration.

This is fact not assumption, my education with the Open University, Course: **PT615 2 Robot Manipulation, Sensing and control**. The **robot** was a **PUMA** that had **six degrees of freedom**. The year was **1981** as a guess, if I find the records: I can up the **date precisely**. It was in **Dudley Port district** of the **Midlands**. This course was **important for me**, as now is the **time** that I have to start to think how to **set up mass production systems**.

PROGRAMMED REVIEW:

- 13** There are many methods of producing an emf or voltage. Generally, the emf is produced as the result of one of six phenomenons or effects. These are:

Magnetoelectric:

Electrochemical:

Photoelectric:

Triboelectric:

Piezoelectric:

Thermoelectric.



Of these, the method used to produce the electricity to run our factories and homes utilizes the _____ effect.

Space appears to be lacking for the next question to be placed here, so that will appear on next page.

1609: Johannes Kepler's Laws of Planetary Motion. So long ago, yet play a major part of our space programme today.

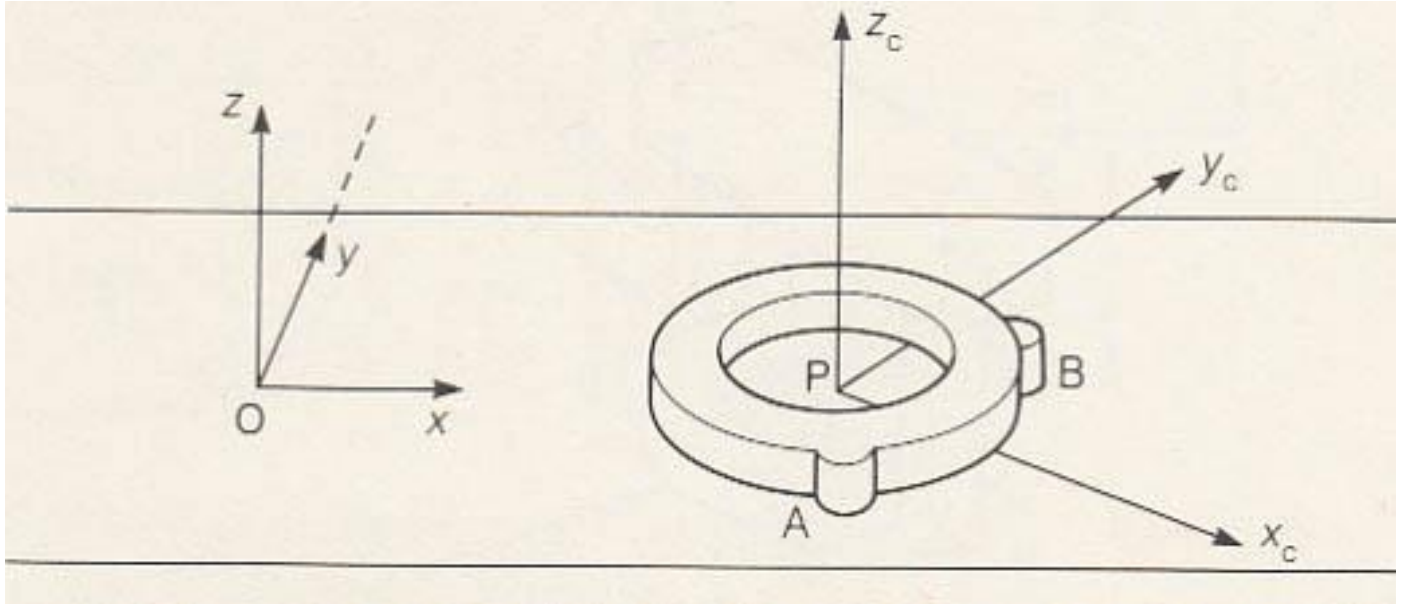


Figure 1.1: a casting on a conveyor: This was a part of my training with the Open University Robot manipulation, sensing and control. Course: PT615 2. Sorry that photo shop will not allow me to colour it; as I did in my book of 1976. Any **intelligent engineer** can explain what is shown here, without colouring it. This is a **possible set up for the mass production of the S.E.G.** in which I actually took this **course** to get the **knowhow**. But at this moment I am looking at the feasibility of cutting out the **conveyor** by using **pick** and **place robots** from **machine** to **machine** of the **production line**. Agree, the final components will need a **conveyor** to take them to the pressing together operation and packaging them.

The toaster and electric stoves are examples where electricity is used to produce heat. Searl states when current flows through a wire, the wire is **surrounded by a magnetic field**. This **magnetic field** is put to practical use in **motors, loud speakers**, and **solenoids**. Searl says recall that a crystal produces a voltage when it is bent or twisted. Searl informs you however, when a voltage is applied to a crystal, the structure bends or twists. Thus, emf can produce **pressure**. Searl states: finally, emf can produce **chemical activity**. An example of this is the **electrolysis of water**. Searl states that when an **electric current** flows through **water**, the water is broken down into its component parts of **hydrogen H** and **oxygen O**. Searl points out that **electroplating** is another example of **chemical activity** caused by **electricity**, Searl should know, he has done **electroplating** at Vanderviel.

The time has now arrived to test what you can remember from this last section. Searl states: remember that I give no answers in this document to these questions, as you should be able to answer them without any problems. If, for any reason you do not understand the question, the only option for you is to re-study this section, until you grasp its contents.

1609: Telescope: Galileo was not the first, but he did improved on the system, so imagine was the correct way up, even if it was burry. He managed to study the stars etc.



Again I am overseas on business of the S.E.G. which appears to be too good for the people to have. Or they think they don't need it.

Thailand: I have to admit it was a great team, but things went wrong, I just could not fly over there again to sort out the problem, which was **human, not technology**, and it had nothing to do with a **takeover**, a change from the **normal problems** that I have experienced. Most of that team was **military** and **government**, but that was not the **problem, everything was great with them.**

Searl states that as with most other forms of energy, **heat** can be converted directly into electricity. The device for doing this is called a **thermocouple**. Searl states that a **thermocouple** consists of two dissimilar metals joined together. A typical example is **copper Cu 29** and **zinc Zn 30**. Searl has shown **that copper Cu 29** will readily give up **electrons**. This is especially true when **copper Cu 29** is heated. As shown in **Figure 2.12**: the **free electrons** from the **copper Cu 29** are transferred to the **zinc Zn 30**. Thus, the **copper Cu 29** develops a **positive charge** while the **zinc Zn 30** develops a **negative charge**. Searl says, since more heat will cause more electrons to transfer, the charge developed is **directly proportional** to the heat applied. Searl points out that this **characteristic** allows the **thermocouple** to be used as a **thermometer** in areas which are too hot for **conventional thermometers**.

Searl points out that a **specific voltage** across the **thermocouple** corresponds to a **specific temperature**. Therefore, the **voltage** can be measured and compared to a chart to find the **corresponding temperature**. The process by which **heat** is converted directly to electricity is called **thermoelectric effect**.

Effects of Emf:

Searl has shown that an **emf** can be produced by **light, heat, magnetism, pressure, and chemical activity**. Searl states that it is interesting to note that the reverse is also true. That is, an **emf** can produce **light, heat, magnetism, pressure, and chemical activity**. The **light bulb is an application of light produced by Electricity.**

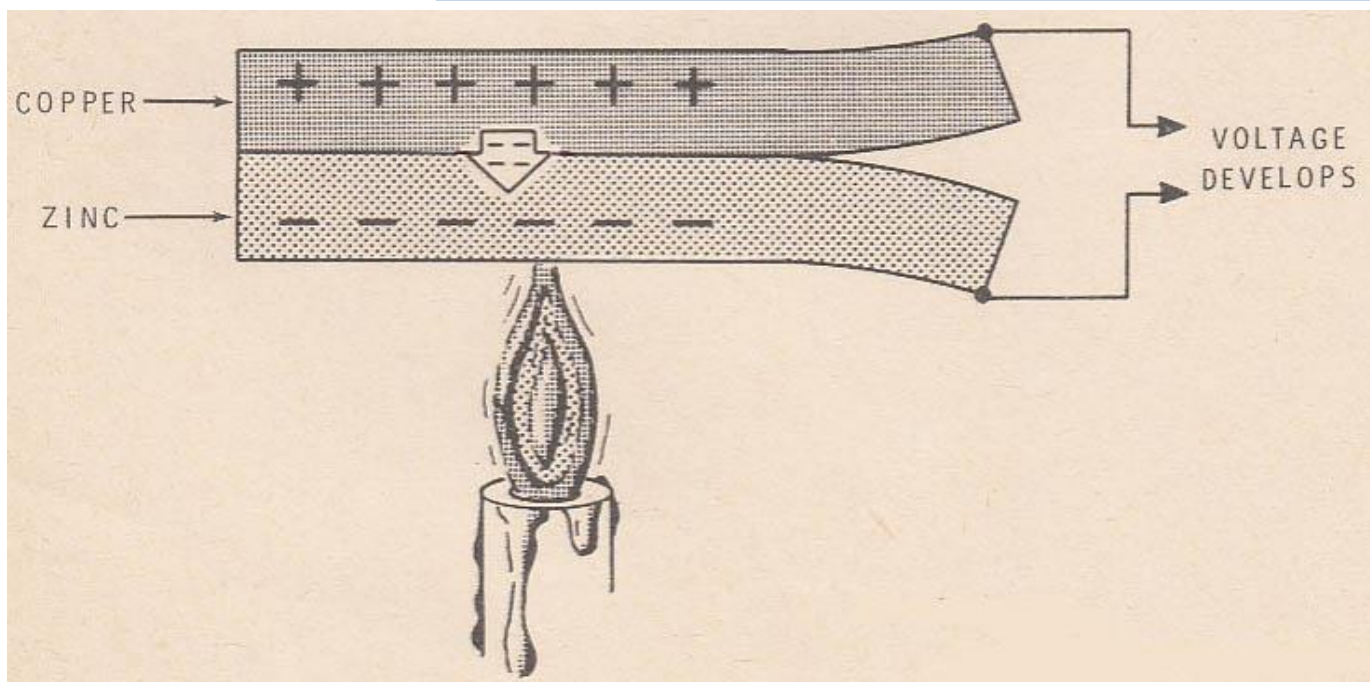
Searl knowledge: 1946-1968: Legal: SEARL NO: 013787346: Legal: SEARLE NO: 013787451.



Morris and trailer: collecting equipment for the lab in San Diego, California, U.S.A. Guess Morris is mad like me, but determined to succeed where others dare no go.

••• – – – / ••• – – – • – • / ••• – – • – • / ••• – – • / • – • – • //

HEAT:

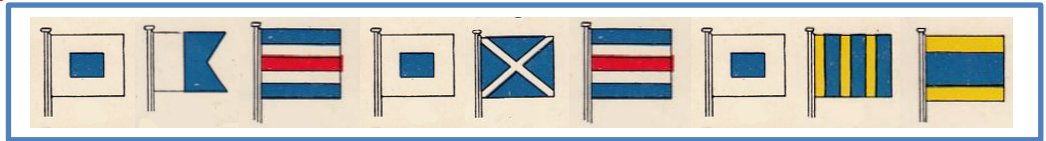


Searl knowledge: 1946-1968: Legal: SEARL NO: 013787346: Legal: SEARLE NO: 013787451.



Saturday 8th November 2014: four members of a company paid a visit to **SMI HQ**, to observe the progress being made there. They were **impressed** with the **tour** and **demonstrations** and **promise to assist us with orders**.

PRESSURE:



Searl understands that a **small electrical charged developed** in some **materials** when they are **subjected to pressure**. Searl informs you that this is referred to as the **piezoelectric effect**. It is **especially noticeable** in **substances** such as **quartz: tourmaline:** and **Rochelle salts** all of which have a **crystalline structure**. **Figure 2.11:** illustrates how the **charge is produced**. In the normal structure negative and positive charges are distributed so that no overall charge can be measured. Searl says, however, when the material is subjected to pressure, electrons leave one side of the material and accumulate on the other side. Thus, a **charge is developed**. When the **pressure is relieved**, the charges are again distributed so that the **net charge disappears**.

Searl understands that this effect is put to good use in **crystal microphones, phonograph pick-ups,** and **precision oscillators**. Searl says that the **voltage produced** is very small and it must be **amplified** before it can be used. Searl will end here on this subject and on next page take a brief look at heat.

1543: Copernican system: published by Polish astronomer Nicolaus Copernicus **1473 – 1543** who place to my understanding the Sun as being the centre and the planets circle it. Took 200 years: for it to be replaced by Ptolemaic model that the Earth was the centre.
Page 482©

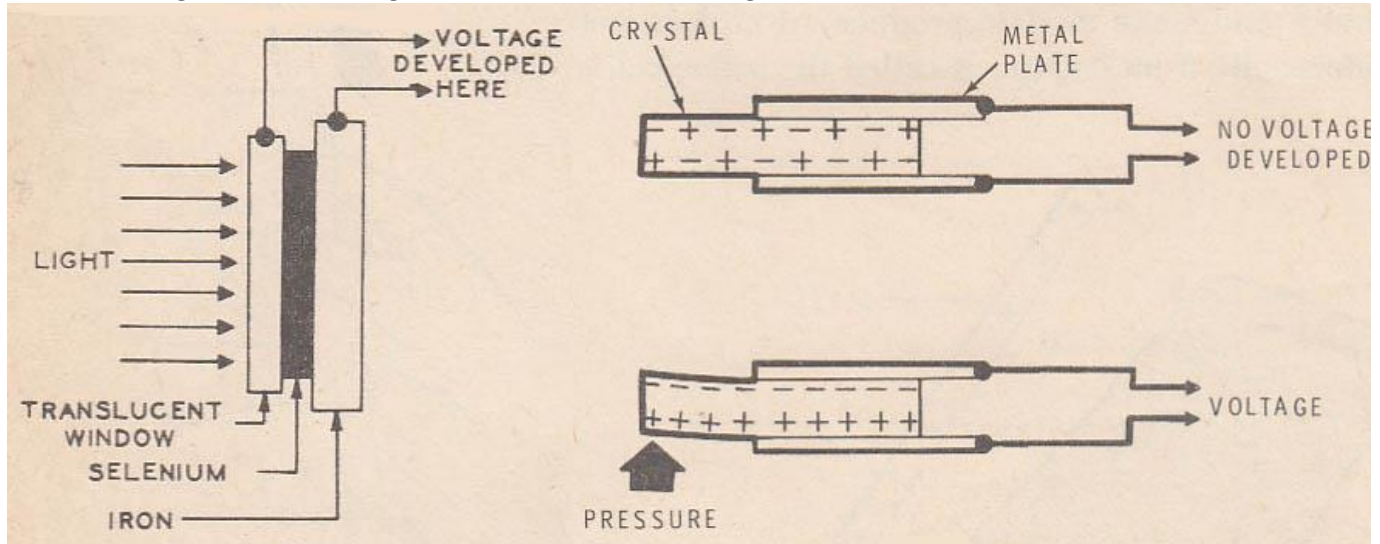
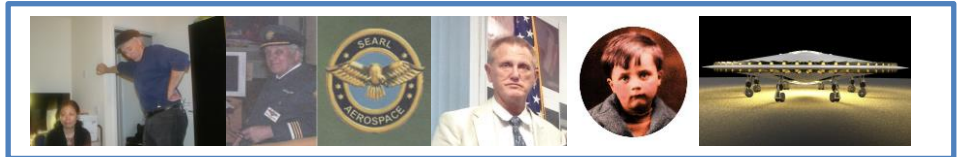


Figure 2.10: Electricity from light

Figure 2.11 Electricity from pressure.

Searl states that in many cases, **static electricity** produced by **friction** is **troublesome** or **annoying**. However, there is a device used in **physics laboratories** which uses this principle to develop very **high voltages**. It is called the **Van de Graaff generator** and some models produce **10 million volts or more**. Searl says that producing electricity from friction is called the **triboelectric effect**.

LIGHT:



Searl confirm that **light energy** can be **converted** to **electrical energy** in large enough quantities to provide limited amounts of power. A familiar example of this is the **solar cells frequently used on spacecraft**. In my days their cost was too high for **commercial use**. However, Searl knows that sometime in the future, the price may decline to the point that this type of **energy** can be used on a much broader scale.

Figure 2.10: shows the construction of one type of **solar or photo cell**. Searl states that it consists of some type of **photosensitive material** sandwiched between two plates which act as electrodes. Searl states that a **photosensitive material** is one which develops a **charge** when it is bombarded by light. Searl understand that some substances which will do this are **Sodium Na 11: Germanium Ge 32: Selenium Se 34: Cadmium Cd 48: and Cesium Cs 55**. Searl says when these materials are struck by light some of the atoms release **electrons**. Searl informs you that this is known as **photoelectric effect**. In **Figure 2.10:** light passes through the translucent window and strikes the **selenium Se 34** alloy underneath. Some of the **selenium Se 34** atoms give up electrons and a charge is developed between the two plates. When exposed to **sunlight**, a single cell can provide a fraction of a volt charge and deliver a few milliamperes of current. When used as a power source, hundreds of the cells are tied together so that they produce usable voltage and current levels. Searl will close upon the subject of light for now. And will take a quick look at pressure.



MV2300: In **2002:** I wanted to buy this unit, but failed to have enough cash at that time, may be today Searl could, it's a matter of doing some phone calls as to who is making the best offer. It's the new compact Analytical SEM combining the complete range of CamScan chambers, stages and detectors with innovative electron optics. Agree there may even be a much improved system available today. But it is clearly the tool for my world, if not for yours.

Searl reminds you that the **Zinc Zn 30** reacts with sulphate in much the same way. The sulphate molecules have a negative charge. Thus, positive **Zinc Zn 30 ions** are pulled from the bar. This leaves the **Zinc Zn 30 bar** with surplus of electrons and a net negative charge.

Searl says that if a conductor is connected between the **Zinc Zn 30** and **Copper Cu 29 bars**, electrons will flow from negative to positive terminal. Because current flow is always in the same direction, Searl call this direct current or **DC**. Searl says to compare this to the **AC voltage** produced by **magnetism** in **Figure 2.7**.



MX2500: Analytical Microscopist – 50KV, FE, LAB₆, Stages, Chambers, Detectors, Spectrometers.

Vacuum: That was going to be **my world**, back there in **2003**. As always as things begin to come together someone has to kill it by **greed** and **irgrance**. So again it was goodbye. Today in the year of our Lord **2014** we really need such equipment, its been invented some time ago. But the world has not yet ended, thus there is still hope for the world. Here in 2015 I am beginning to doubt that the S.E.G. will never be made again.

Searl states that because of the chemical action involed, the **hydrogen H.1**. atoms give up electrons to the molecules of sulfate. Thus, the hydrogen atoms exist as positive ions while the sulfate molecules act as negative ions. Even so, the solution has no net charge since there are the same number of negative and positive charges.

Next Searl takes two bars called electrodes are inserted into the solution. One bar is **copper Cu 29**, while the other is **zinc Zn 30**, The positive ions of hydrogen attract the free electrons in the **copper Cu 29**. Thus, the **copper Cu 29** bar gives up electrons to the electrolyte.

This information presented here was my understanding before **1963**. So you may know more than me **Gunda Din**.



Saturday 8th November 2014: Four company representatives on tour of SMI factory units.

CHEMICAL:



Searl understands that the next most popular method of generating electricity is by chemical means sometimes called electrochemistry. Searl points out that automobile and flashlight batteries are examples of two typical applications. Searl just remind you that there are many chemical reactions that will transfer electrons so that an emf is produce.

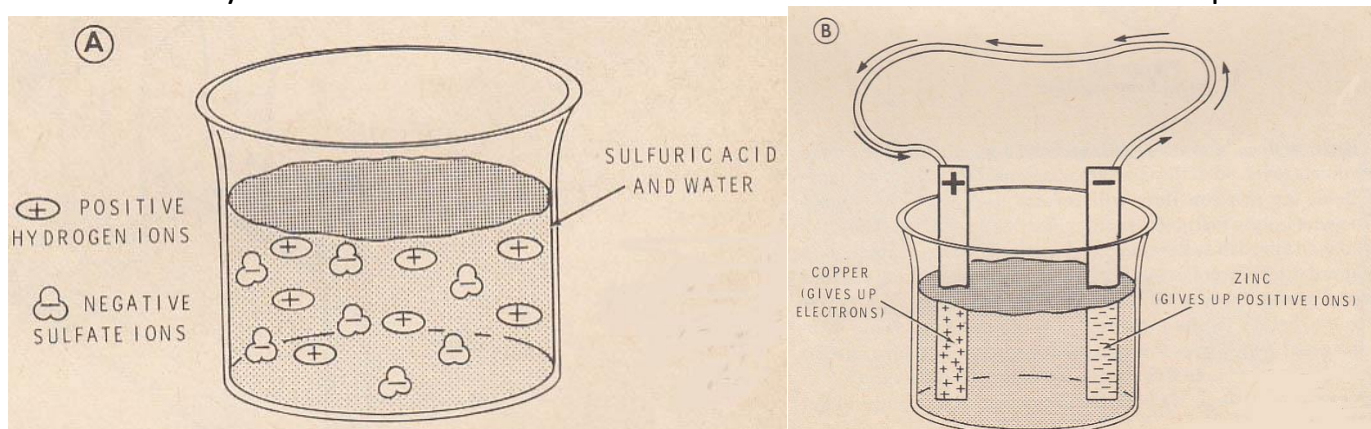


Figure 2.8: Electricity from chemicals.

Figure 2.8: illustrates how a basic battery or cell can be made. Searl points out that a glass beaker is filled with a solution of sulphuric acid and water. This solution is called the electrolyte. In the electrolyte, the sulphuric acid breaks down into hydrogen and sulphate. Searl will continue this reaction on the next page.



Saturday 8th November 2014. Four representatives from a company inspect our firm, and afterwards presented us a contract to study if we could handle such an order. We assure them that it will not be a problem. The only problem that exists is the legal one. This is that it has to be drawn up via a solicitor, for security reasons.

Searl points out if the conductor is moved up and down in the magnetic field; the electron flow will reverse each time the motion reverses. Searl reminds you that in generators, a reciprocal motion like this is required. Thus, the current produced alternately flows in one direction then the other. Searl states that this is known as alternating current or simply AC. Searl states that we all should thank **Nikola Tesla 1889 – 1945** for his efforts to invent such a generator, by which a large part of this planet can enjoy the results which it offered us.

Searl remarks that in power generating stations the reciprocal motion occurs **60 times each second**. Or **50 times each second**. Searl says thus, the power supplied to our homes is often referred to as **60 or 50 cycle AC**. This is an alternating current which goes through the forward-and-reverse current cycle **60 or 50 times each second**. Sadly Searl says that in this document, he will not be concerned with alternating current although Searl will discuss **magnetism** in some detail later.

As: Searl stated earlier, that there are more ways than 1 to **create electricity**. Searl will attempt to explain them at least their basic details within this document. Which: is not a book as such, but a **record of FACTS**. Example **1232**: the first rocket like weapon used to defend the villagers themselves against invading Mongols. You thought we invented the rocket. Again we **see how wrong we are** about **world knowledge** of success.

Searl knowledge: 1946-1968: Legal: SEARL NO: 013787346: Legal: SEARLE NO: 013787451.



Saturday 8th November 2014: four company members visited our lab to see our progress. Get a shock that it was far more complex than they had understood, the tour of the factory plus the demonstration they had no problem to put forward they contract offer, which was not small in size. They understood that we are opening a new window in science and technology.

Searl states as always that all that is require is relative motion between the magnetic field and the conductor.

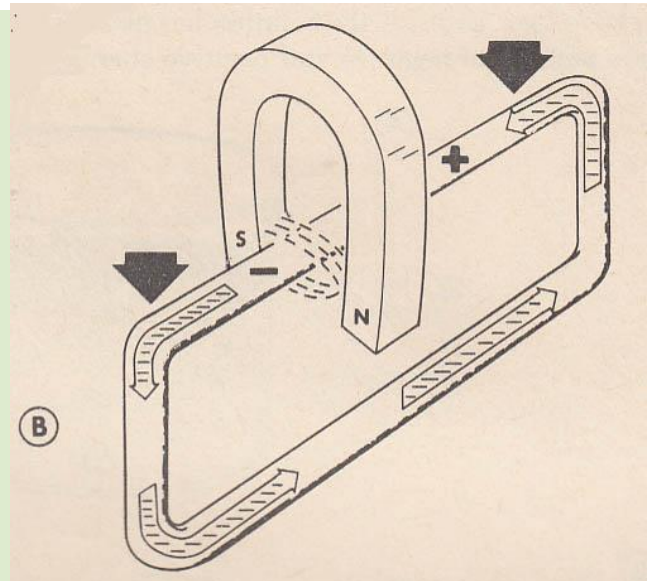
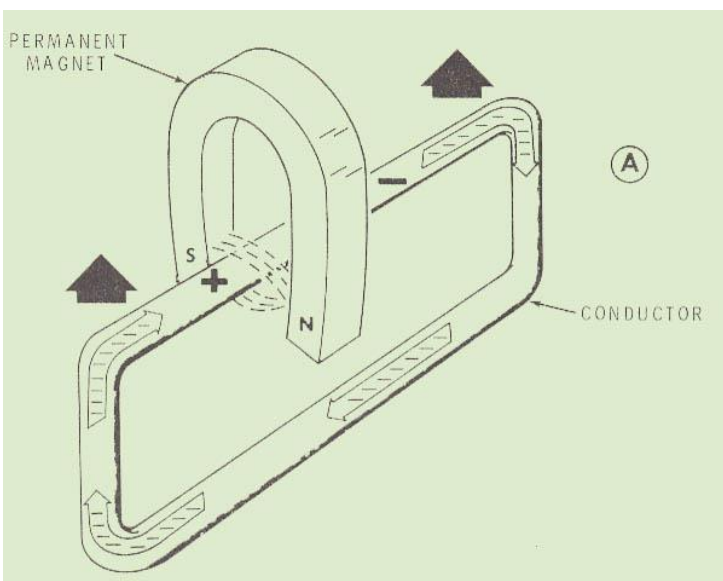


Figure 2.7: Electricity from magnetism A

B

Figure 2.7B shows that electrons will flow in the opposite direction if the relative motion is reversed. What do you make of that **Flowerbower, the world's top expert?**



Saturday 8th November 2014: at our lab in California, 4 members of a company visited for a tour of our company set up there, with a propose contract. If they expected to see nothing, than they got an eyeful what it takes to make a **S.E.G.** and to feel that force which no one else has ever used in a generator. If their offer was a suggestion before that **demonstration**. Unfortunate I cannot name those present due to the nature of this **agreement**. Sad to say we cannot commence this order until all **legal paper has been completed for security reasons**.

In reference to the **magnetism**, Searl informs you that the **basic requirements** are a **magnetic field**, which **creates a wave imprint**, a conductor, and a relative motion between the two – simple? **Figure 2.7:** shows a simple example of conventional thinking. Searl points out that here the **magnetic field** is produced by a **permanent magnet**. The field is resented by the lines drawn from the north to south poles of the magnet. If a conductor: is move up so that it cuts the field as shown in **Figure 2.7A**: electrons will flow in the direction indicated.

Searl says that the same effect will be obtained if the conductor is held still and the magnet is moved down. Searl has been stating that since late **1946** in his newsletters and books and lectures with demonstrations that proved that to be correct. Unfortunate for Searl, is the **FACT** that people have ears but cannot hear, and they have eyes but they cannot see. Sad to say that Searl cannot change this condition until **education changes** its **structure**. When will that be, no one knows, may be never because, we have ran out of **time**. Searl guess that **Albert Einstein** had also come to that **assumption**. The **S.E.G. functions precisely** the same, with the **fact** that it **kick starts itself** due to its **construction**.



Saturday 8th November 2014; four members of a company visited our lab, to discuss a possible contract for 1000s of 1 megawatt S.E.Gs. With: other future orders pending. I have been requested not to make it public, so sorry I'm not allowed to say if it's **military** or **civilian**. Whichever it is, there will be lots of **legal paper work** to be done before the **contract is finalised**. It has already taken over a year to deal with the **legal issue** of the **Searl Foundation**, with yet more **legal papers to sign** which is expected at this time to be either the **9th** or **10th** of **December 2014**. That means more **cost to meet**.

So you are going to construct it in your bedroom – **REALLY!** That is interesting to know. From Searl point of view, such a device could never work simply there is no order to the chaos which you have introduced here. You have no idea what you are saying on the internet. Thank you: Richard Branson for that support that they are ill responsible people who create more harm than good.

Sir Isaac Newton made the position absolute clear within his **second law**, to which the **S.E.G.** meets each condition as defined by **Sir Newton's second law**. Which: has nothing to do with heat engines, as you people apply. It is all about forces acting and their state either 1 or 0, yes the force can be greater than >0 . In the S.E.G. the force = 5 starts the other forces to switch from = 0 to = 1 once momentum switches from = 0 to = 1, most other forces switches to = 0, except velocity and direction which remains at = 1 as long as drainage = 1. Once the drainage switches to = 0, then $v = 0$ as the S.E.G. is now ideal and runs at cruising speed which is control by the sum of the square which it has been constructed from. This frequency blocks the S.E.G. from stopping. As: I have no need to repeat the Second law of Sir Isaac Newton, as I have already done that here in this document.

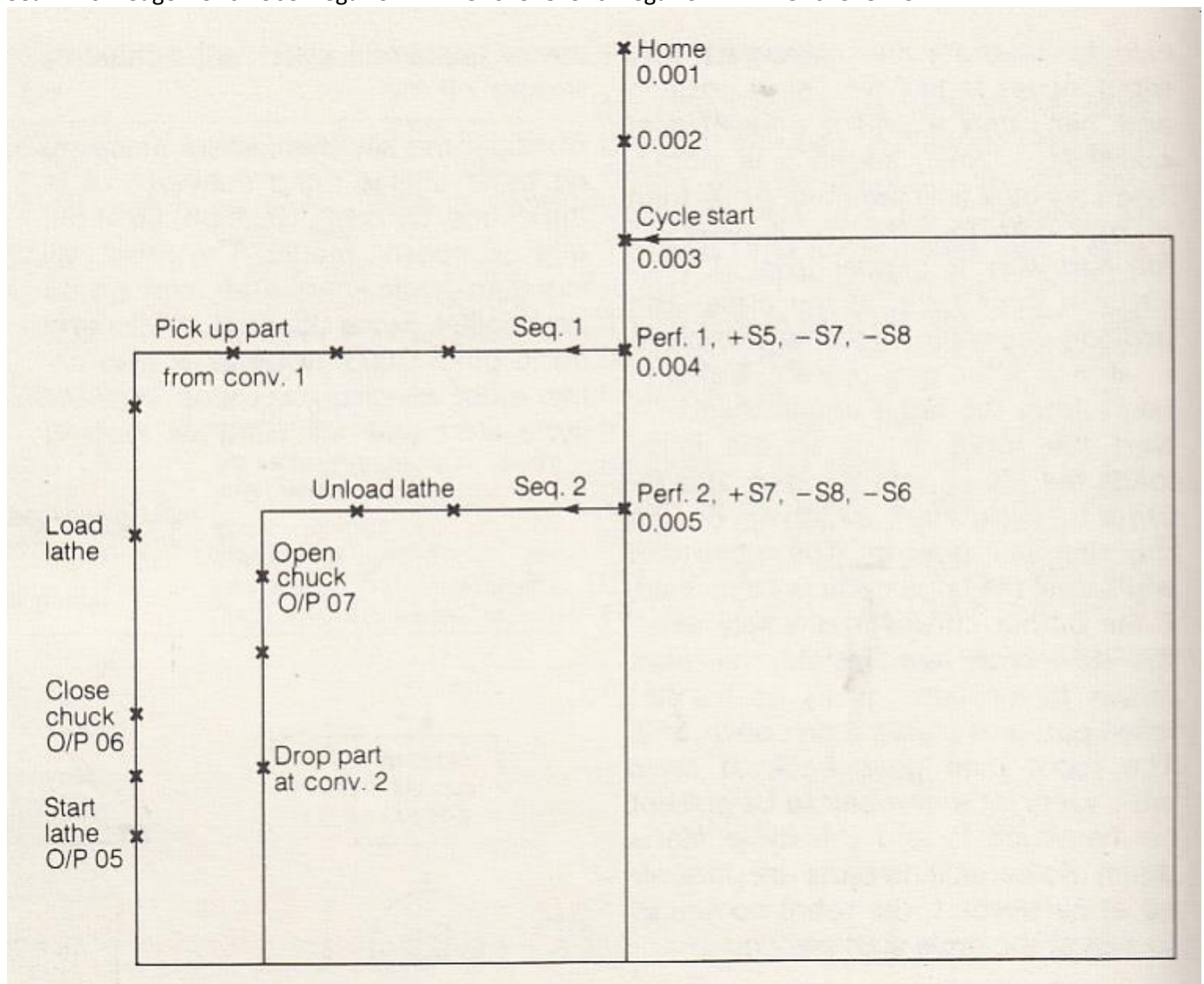


Figure OU5.4: A line diagram for the program of Figure OU5.3: This is just another reminder of Searl advanced continue education determination to get the skill for the work ahead which he needs to undertake. Searl have shown you the **mathematics**, now Searl is showing why he needs such **mathematics**. Which: Searl presenting here, what he had to **learn**, not just **learn** but to **understand** what Searl have **learnt**, two complete different states.

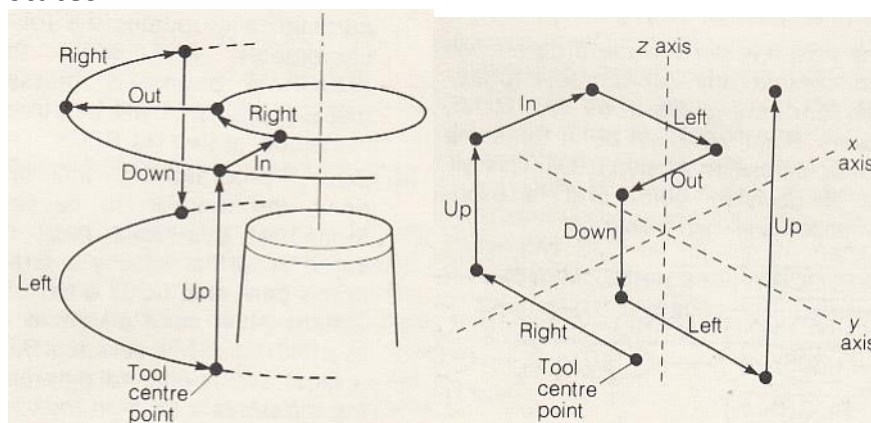


Figure OU5.7 (Left)
Cylindrical teach coordinates.
Movements are left or right around the centre of the base. IN or OUT from the centre of the base, and U or D (up or down) vertically.

Figure OU5.8: (right)
Rectangular teach coordinates.
Movements are parallel to the **x, y, and z axes**

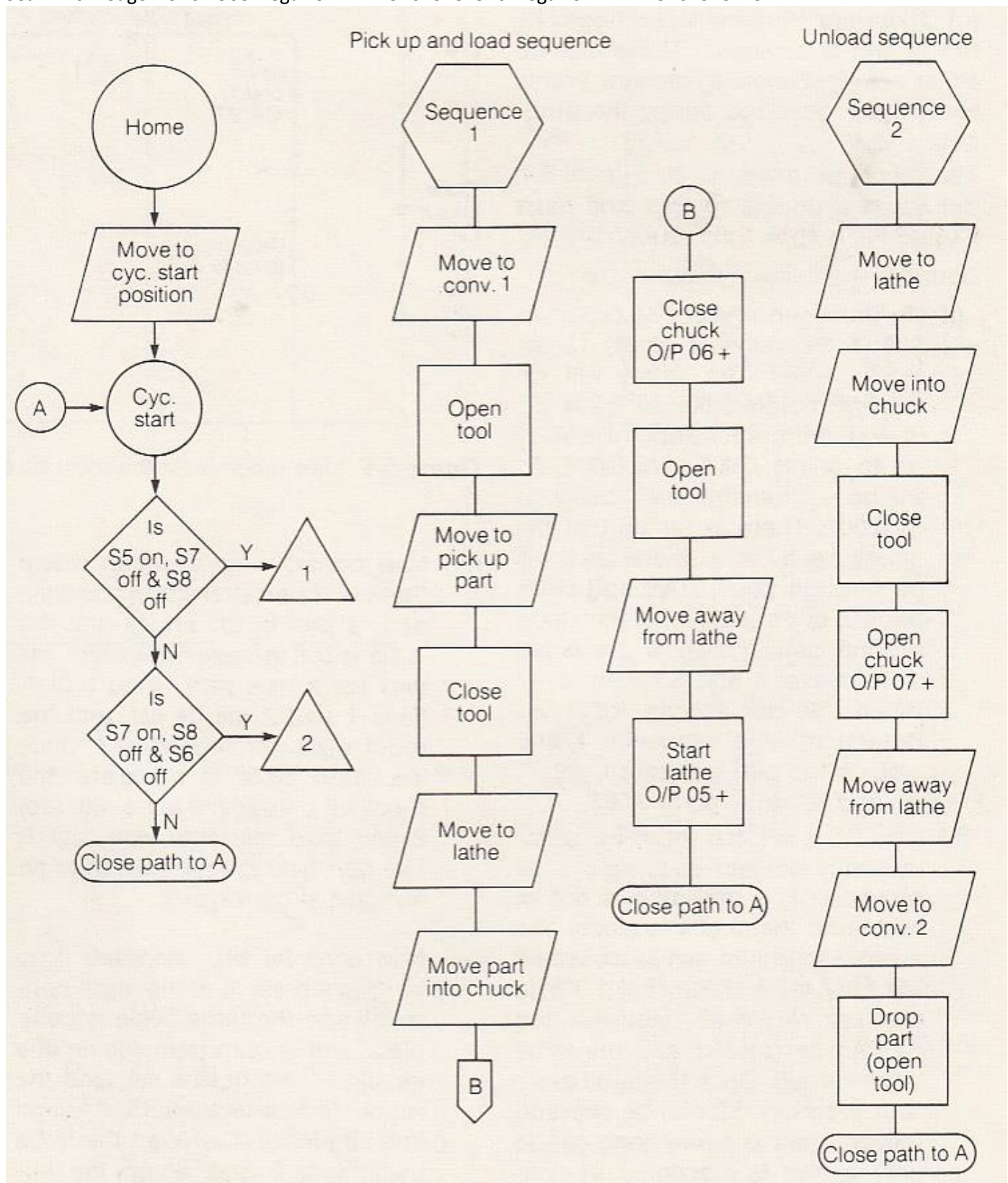


Figure OU5.3: A flow diagram for the fictitious cell: Searl term it a flow chart. But unless you create such a diagram, how can you be certain that the robot will function as intended. That was why Searl undertook these courses. Searl wanted to know the truth on how to use robots in his mass production lines to be; of the **S.E.G.** He never wants certificates, just the **knowhow** to bring a new baby from the world of **impossible** to the **domain of possibility**, which he did. Being famous never entered his head, he was just nobody.

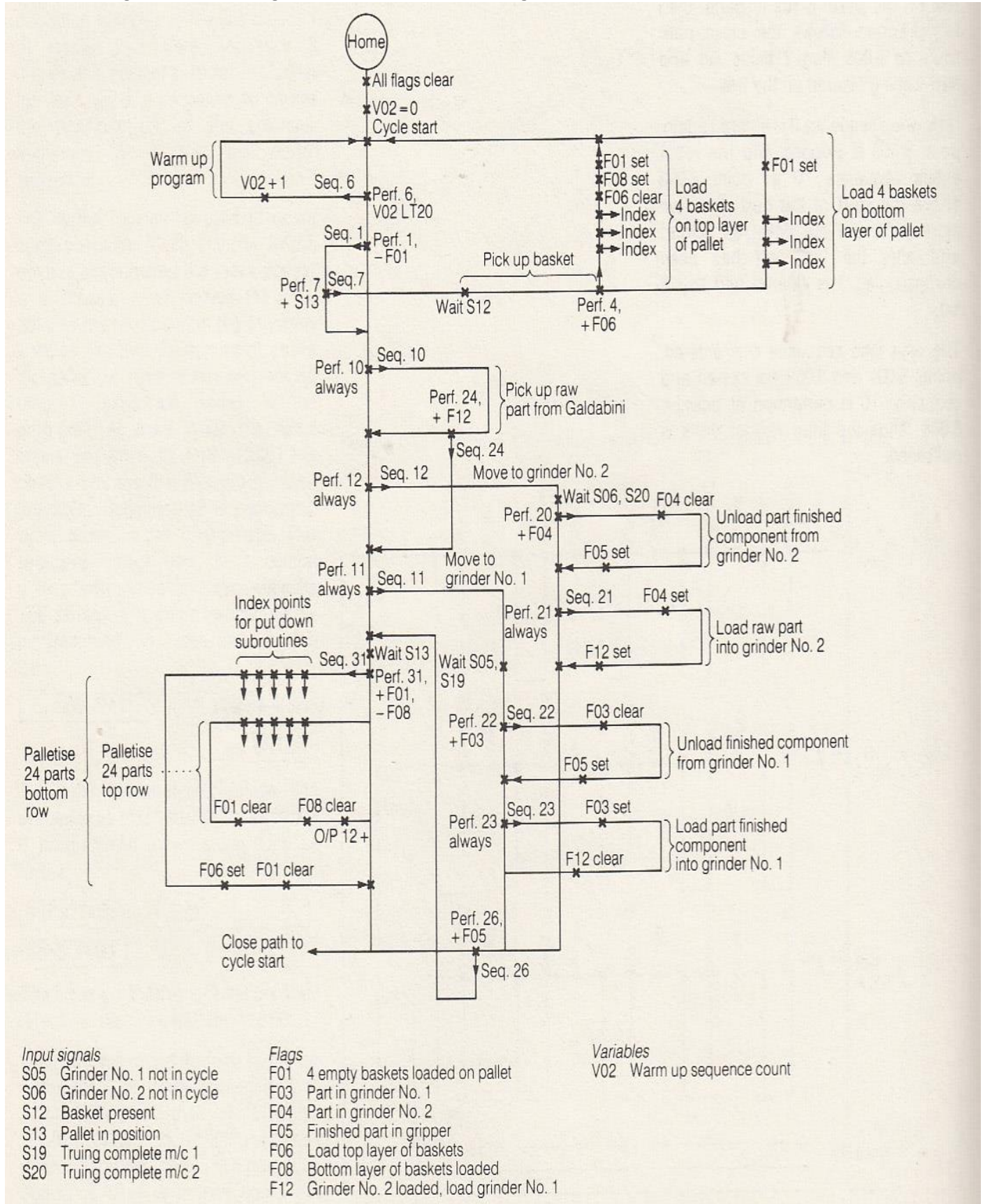


Figure OU6.1: Simplified case study: with only one pallet position and no End of Shift sequence. Again a part of **Searl learning curve**, for the task which he is now employed in, the **S.E.G. mass production**, requires this kind of **understanding**. You will be hearing more on the web soon I guess. Shows how **important mathematics** is in this kind of work.

Searl knowledge: 1946-1968: Legal: SEARL NO: 013787346: Legal: SEARLE NO: 013787451.

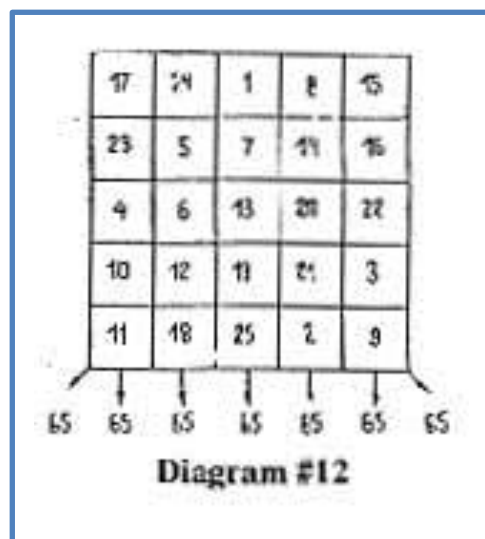


Here you witness that Searl is shaking hand with the film actor Joe Baker who was involved in a film at that time being film, and unfortunate Searl was there to give a lecture. Searl agrees that Joe is a great guy. I hope that he is still kicking. Hi Joe is you in the new movie the second one to the first? Good luck Joe. We may never meet again, but I shall remember!

Joe Baker shakes hands with Professor Searl at the hotel where Searl was lecturing and he was acting in a movie.

While the effects listed, can produce an emf, an emf can produce the effects. Match each of the following applications with the effect produced by the emf.

Application		Effect	
=====			
1	flash light	A	heat
2	Automobile	B	chemical
	Cigarette lighter		activity
3	Electroplating	C	light
4	Electromagnet	D	pressure
5	crystal earphones	E	magnetism
6	light bulb		
7	toaster		
8	motor		
9	electrolysis of water		



Searl will end his questions here, more will follow later. Searl has mention batteries, which they are many types of design and power. Which he will cover just the basic facts?

1896: Climate Change: Svante Arrhenius Swedish Scientist calculated that every time the increase in carbon dioxide levels double, the temperature would go up by **5°C**. Searl notice that **G. S. Callendar** in **1938** rechecks **Arrhenius figures** and sounded the **alarm** that **global warming** was a **fact** even the **ancient Greeks** were concern about **global warming**.

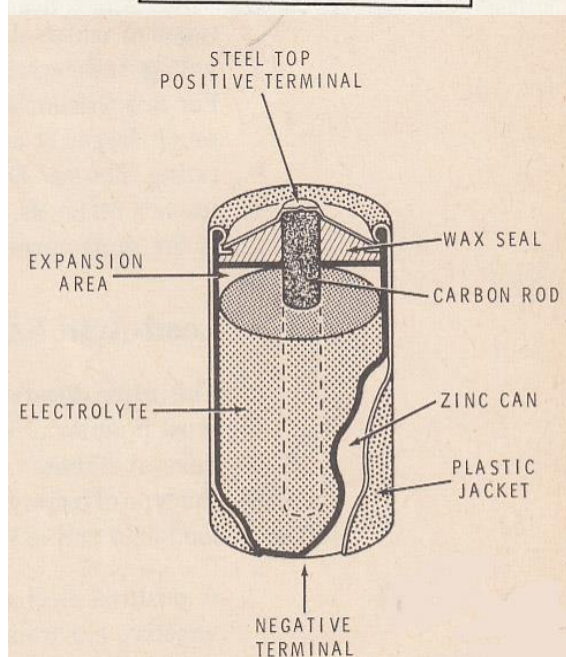
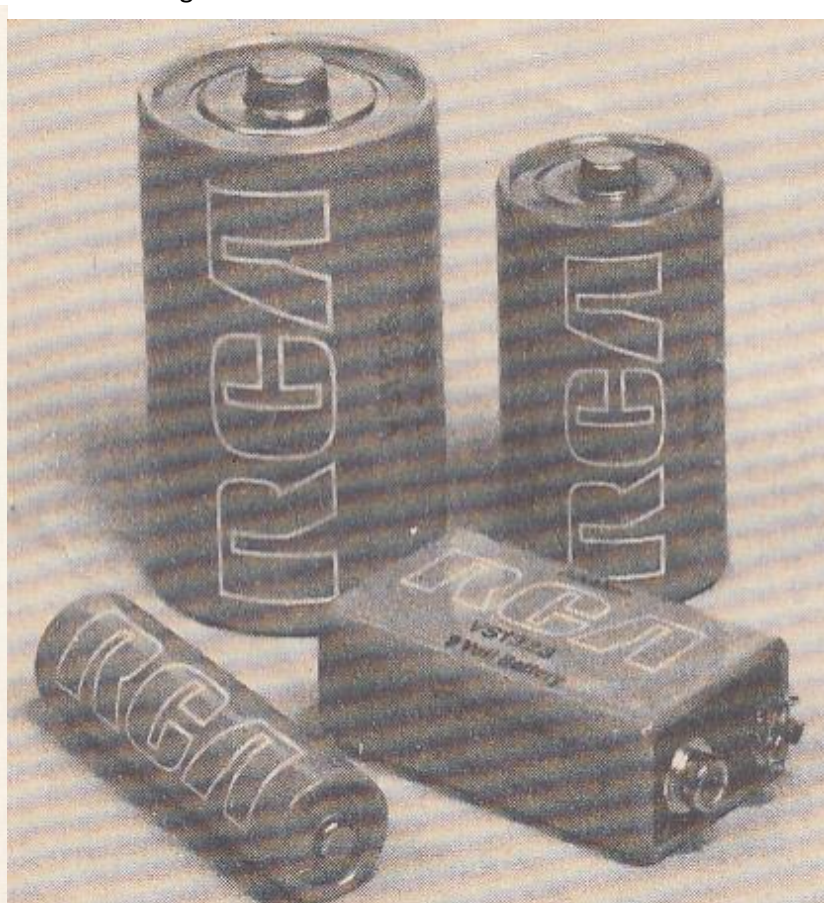
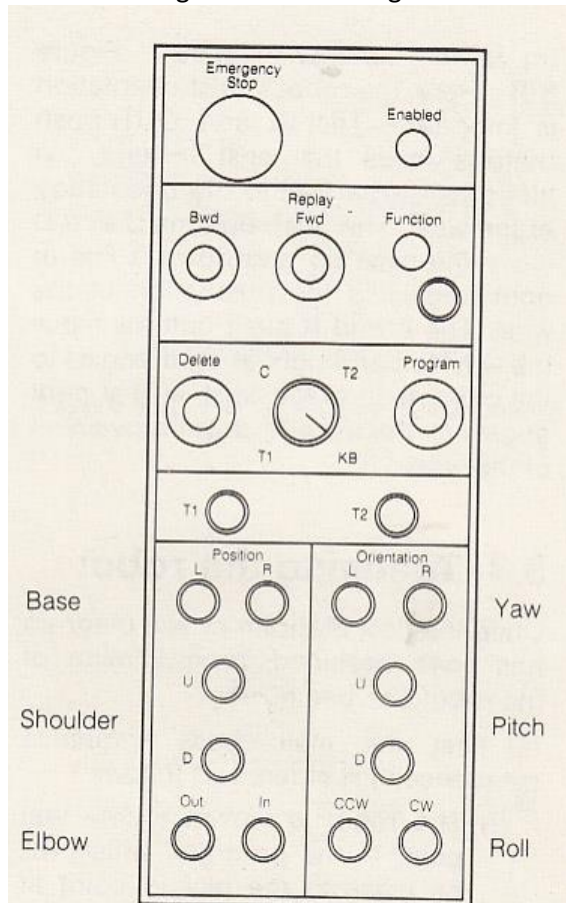


Figure OU5.6: Top Left: teach pendant layout

Figure B: Top Right: Four popular size batteries, which most people must know by now what they are, TCA are not the only battery manufactures.

Figure B2.13: Bottom left: construction of a dry cell.

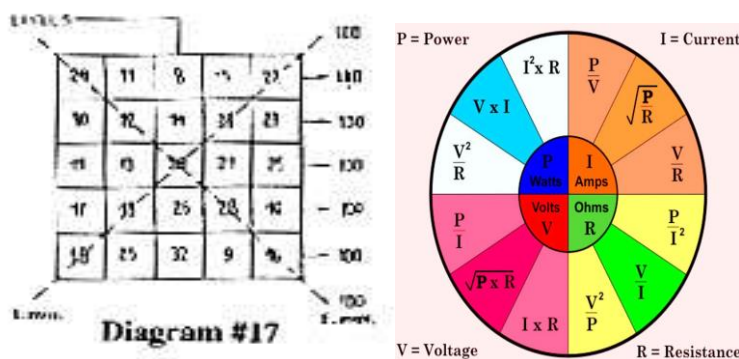


Figure B2.13:

Top right hand illustrate: the most popular domestic batteries available today. The **illustration** on the **bottom left shows** the **construction** of a **flashlight** or **dry cell**. The positive terminal is the steel top at the end of the **carbon C 6 electrode**. The negative terminal is the **zinc Zn 30 can** or container which holds the rest of the cell. A plastic jacket protects the **zinc Zn 30 container** and **insulates** the negative terminal from the positive terminal.



Searl personal property from the UK, which Morris has the task to unpack and sort material out in some order so Searl can start the reconstruction job.

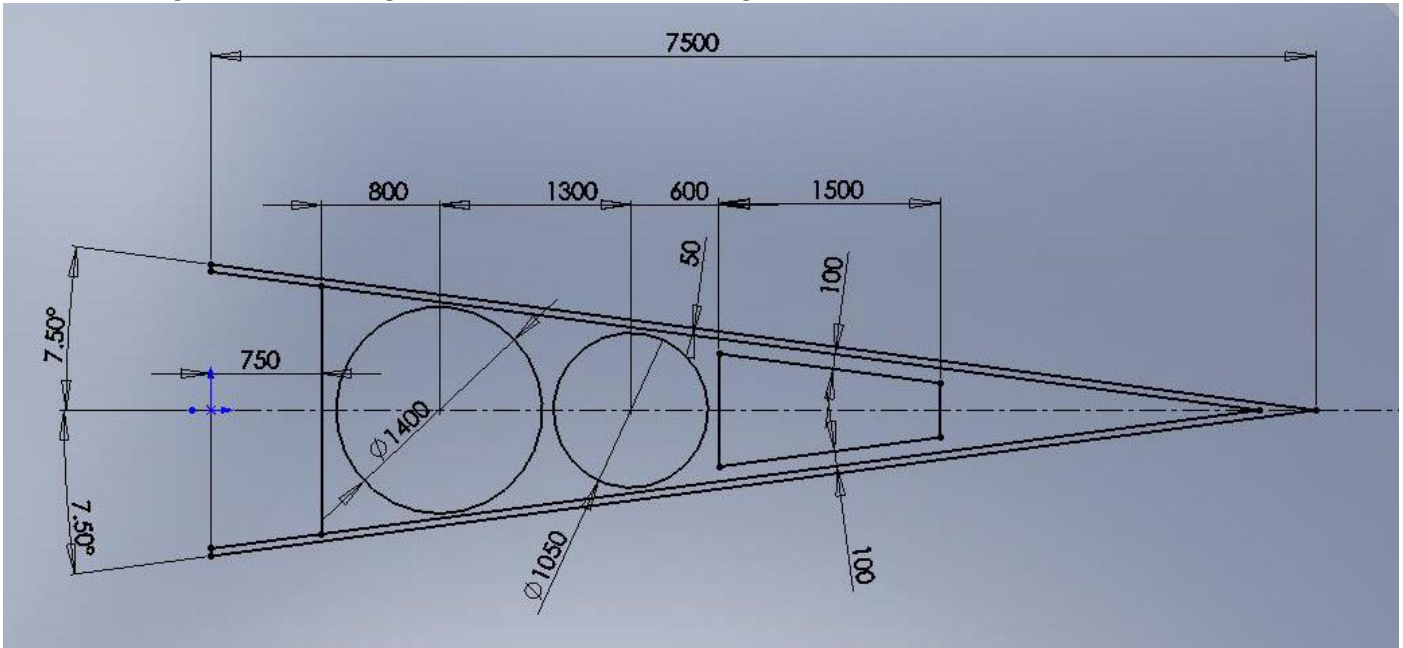
Batteries:



Searl has discussed one type of battery or cell in the previous section. It consisted of **zinc Zn 30** and **copper Cu 29 electrodes** inserted into an **electrolyte** of **sulphuric acid** and **water**. In this section Searl will discuss the construction and operation of several more common types of batteries. But first let's discuss the difference between a **battery** and a **cell**. A **cell** is a single unit which contains negative and positive electrodes separated by an electrolyte. A **battery** is a combination of two or more **electrochemical cells**. Thus, what you call a flashlight battery is really a **cell** since it contains only one unit for producing an emf. In spite of this technical definition the word battery is loosely used to describe a single cell.

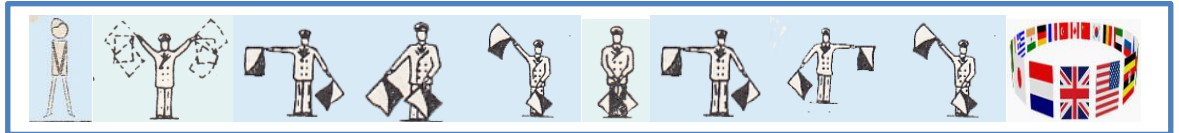
There are two basic types of cells. One type can be recharged and is called a secondary cell. The other type cannot be recharged and is called a primary cell. All cells and batteries store energy in a chemical form which can be released as electricity. Even though this type of cell is referred to as a **dry cell**, it is not dry on the inside but contains a moist paste. A wax seals off the open end of the **zinc Zn 29 container**. This prevents any paste from oozing out when the battery is turned upside down or placed on its side. Thus, this type of cell can be used in any position without the electrolyte escaping.

Well, Searl better get a couple of hours sleep to rest his eyes, it's already another day.



To be able to design this strut you had to understand mathematics.

Dry Cell:

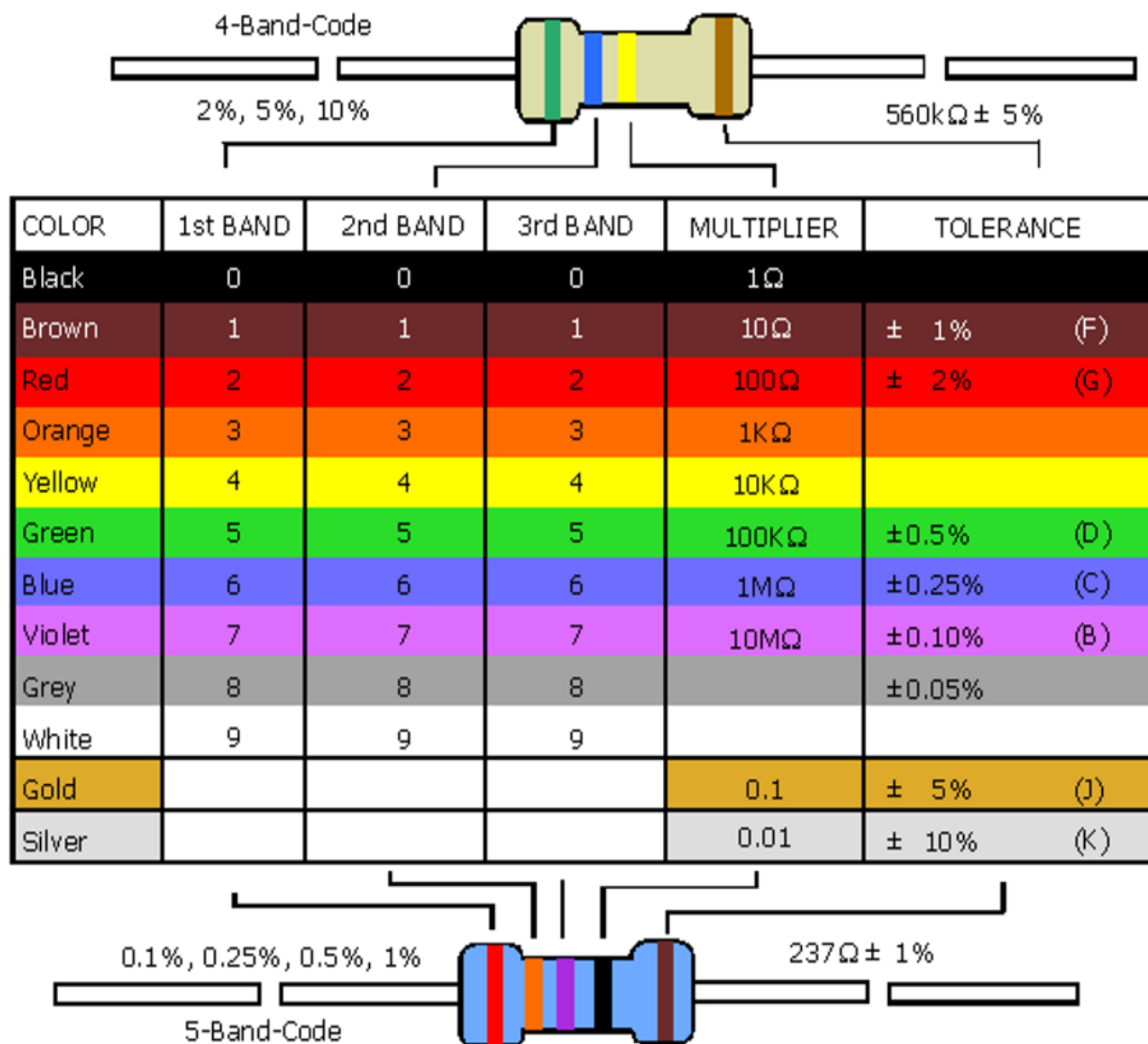


The electrolyte used in this cell is a solution of **ammonium chloride** and **zinc chloride**. The electrolyte gradually dissolves the **zinc** by pulling off away positive ions. This process leaves behind an excess of electrons. Thus, the remaining **zinc** acts as the negative electrode. If it were not for the **carbon rod**, the electrolyte would develop a positive charge by virtue of the positive ions pulled from the **zinc**. Searl states that however, the positive charge is neutralized by electrons pulled from the **carbon rod**. Thus, the **carbon rod** has a deficiency of electrons which causes a positive charge.

This type of cell is referred to as the **Leclanché cell** and it produces just over **1.5 volts** when new. Searl states that as it is used, the chemical action slows down and the voltage gradually decreases. This type of cell cannot be recharged so it is considered a primary cell. Also, because the paste gradually dries out, the dry cell slowly loses its ability to produce an emf. This occurs even if the battery is not in use. For this reason, the **dry cell** must be used within about two years of the time it is manufactured. That is, it has a shelf life of about two years.

The voltage delivered by this type of cell is determined strictly by the types of material used as the electrodes and the electrolyte. Which: applies the same but with a difference to the contents of the materials used in the **roller sets** and the **plate**. Thus, the voltage is determined by the chemical reaction and not the size of the cell. In the **S.E.G.** voltage depends upon the velocity and the mass, but do not reduce its output over the years. For this reason, a small pen light cell produces the same voltage as the much larger D cell. However, the larger battery has a higher current rating.

Searl knowledge: 1946-1968: Legal: SEARL NO: 013787346: Legal: SEARLE NO: 013787451.



Flowerbower, this is just a small bit of **my education 1947**, what do you **understand** what this **means**, **how to employ them**? This **illustration relates to modern system of colour and shape**.

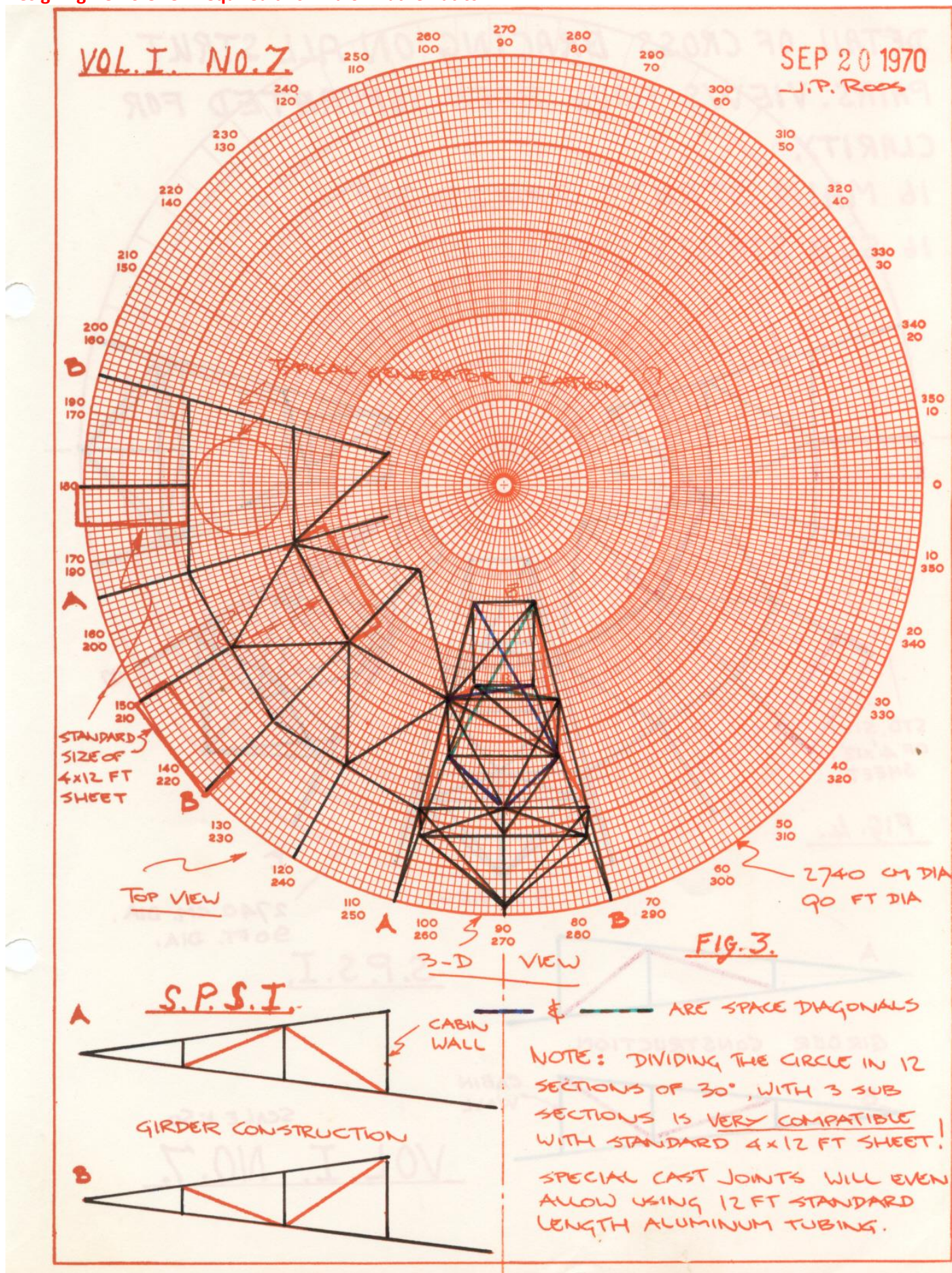
Searl states that the size **D cell** can deliver **50 milliamperes** of current for **approximately 60 hours**. A small **penlight cell** becomes exhausted much sooner at the same current.

Lead Acid Battery:

The prime disadvantage of the **dry cell** is that it cannot be recharged. The most popular of the cells which can be recharged is the **lead acid cell**. Searl states that several of these cells are combined to form the lead-acid battery. This is the type of battery found in virtually all automobiles. **Flowerbower** you have to agree that Searl has wee bit of **education**.

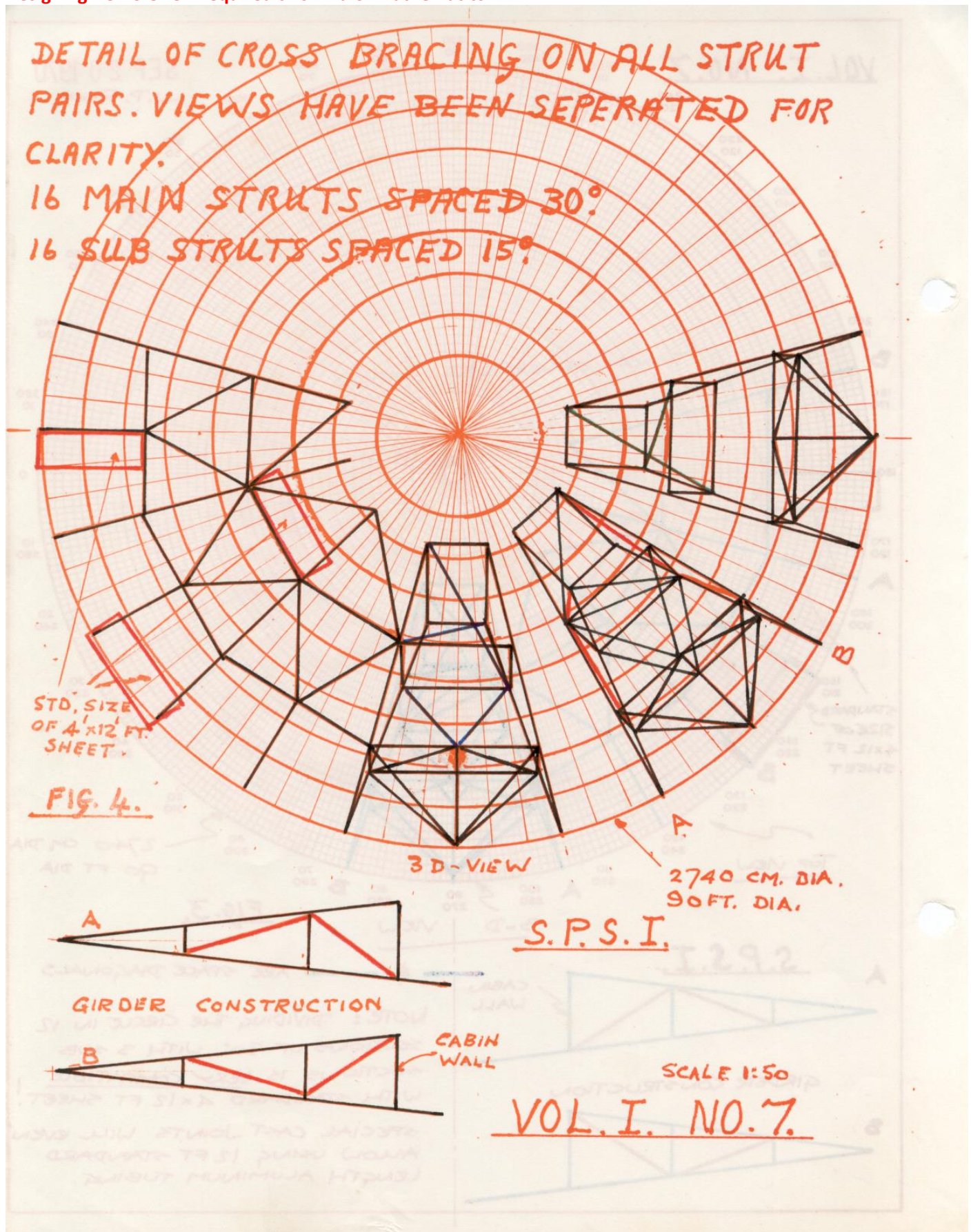
Searl knowledge: 1946-1968: Legal: SEARL NO: 013787346: Legal: SEARL NO: 013787451.

Designing Demo One – required this kind of mathematics.



Searl knowledge: 1946-1968: Legal: SEARL NO: 013787346: Legal: SEARLE NO: 013787451.

Designing Demo One – required this kind of mathematics.

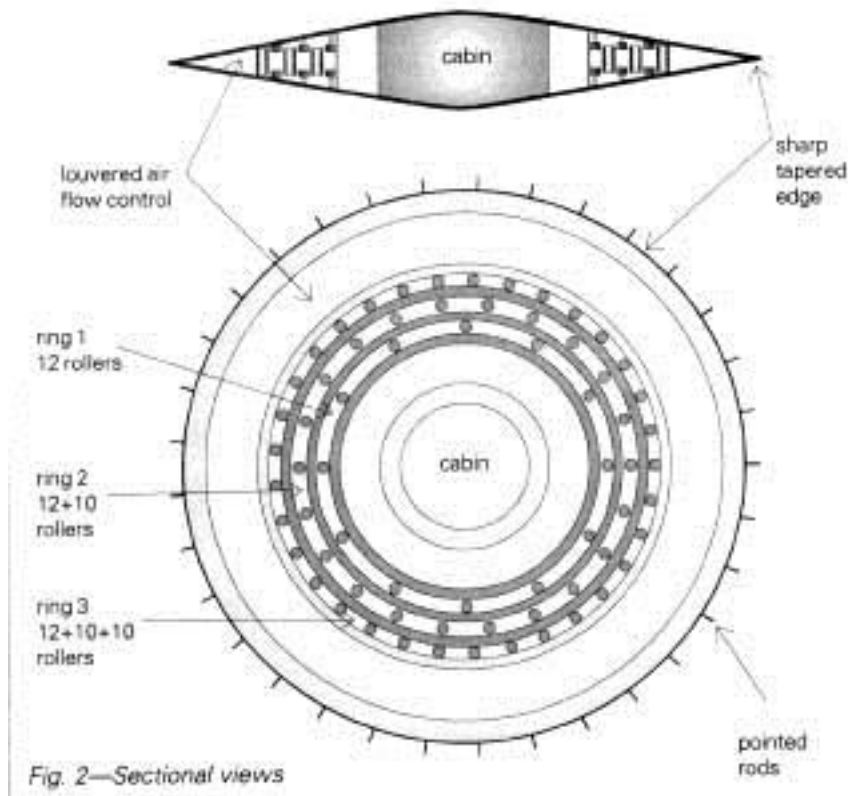


Here is another proof of the kind of **mathematics** which is suitable in the designing of the **I.G.V.** which was ordinary termed the Levity Disc, Japanese team requested change to **I.G.V.**

Page 501©

Searl knowledge: 1946-1968: Legal: SEARL NO: 013787346: Legal: SEARL NO: 013787451.

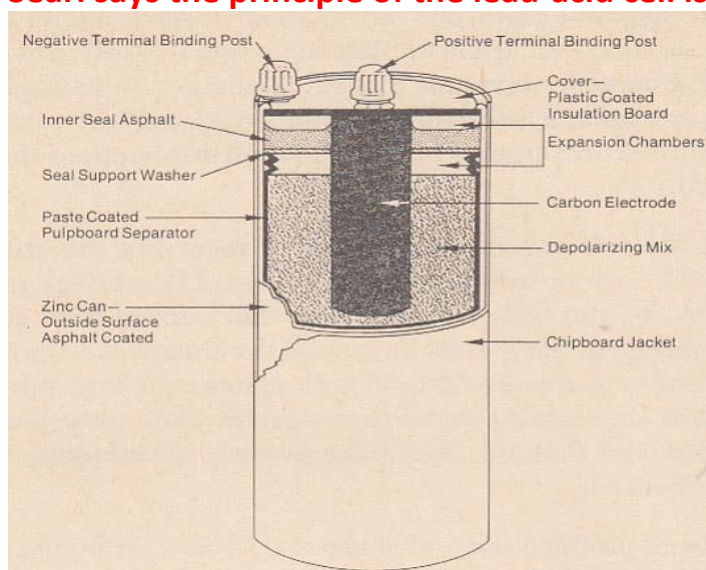
Designing Demo One – required this kind of mathematics.



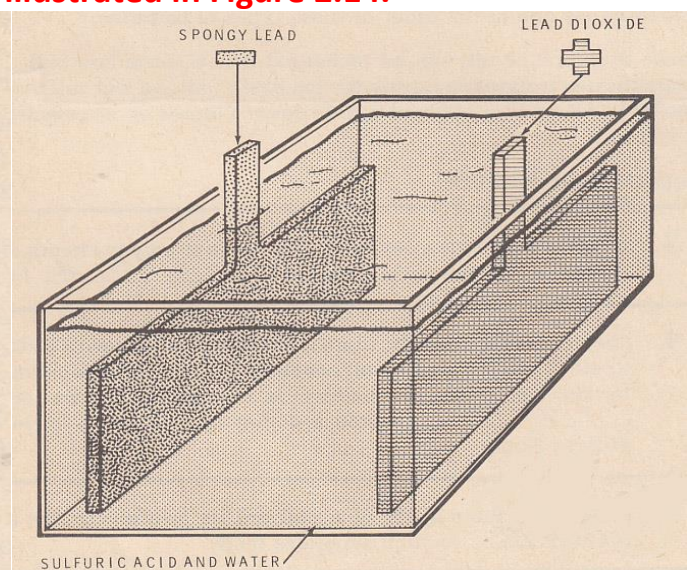
You **experts** on **YouTube** claim that I had no **formal education**, Thank heaven for that or **I would be just as insane as you are Flowerbower**. You are a **very naughty boy**, so bend over for a surprise.

13 old age electric/magnetic and **naval officers** gave me free hand on their holidays and weekends. That world has **change today**, agree here in the **U.S.A**. I admit there are a few that are working hard in the back ground to help me to win. It not yet total **30** of them, but at least they are **real experts**; who just want to see this become **reality**, as the Earth is in such a sad state. To them all, I thank them from the bottom of my heart sincerely for their help, likewise, so do **Fernando Morris, Jason and Mike**. It is hard work as **materials** are now so costly.

Searl says the principle of the lead-acid cell is illustrated in Figure 2.14.



Cross section of a no.6 dry cell.



The basic lead-acid cell.

Searl knowledge: 1946-1968: Legal: SEARL NO: 013787346: Legal: SEARL NO: 013787451.

Designing Demo One – required this kind of information.

Periodic Table of the Elements

The periodic table displays elements from Hydrogen (1) to Oganesson (118). The Lanthanide Series (57-71) and Actinide Series (89-103) are shown below the main table. A legend at the bottom identifies the color-coded groups: Alkali Metal, Alkaline Earth, Transition Metal, Basic Metal, Semi-metals, Non-metals, Halogens, Noble Gas, Lanthanides, and Actinides.

Yes dear **Flowerbower**, for me to create either the **S.E.G.** or **I.G.V.**, some **expert(s)** had to **create** such **charts**, so people like me; who have **no formal education**, can create these products which you who have had **such formal education**, cannot do **WHY?**

Searl states that a positive electrode of lead dioxide (**also called lead peroxide**) and a negative electrode of spongy lead are immersed in an electrolyte of **8 parts** of water (**recall my dream one – the hopscotch game of 8 squares**) to **3 parts concentrated sulphuric acid**. **Sulfuric acid** is a combination of **sulfate** and **hydrogen ions**. When the cell is discharging, the sulphuric acid combines with both the lead dioxide (**positive plate**) and the spongy lead (**negative plate**) converting them to lead-sulfate. The chemical reaction is such that the lead plate develops a negative charge while the lead dioxide plate develops a positive charge. Searl says, if the discharge continues long enough the lead-sulfate covers the two plates to the point that normal operation is impeded. Searl points out that when this happens the cell must be recharged.

Recharging the cell is simply a matter of reversing the current flow through it. This is done by connecting a source of DC voltage greater than the produced by the cell. Searl has shown that current can initiate certain chemical reacts. Here it reverses the chemical action described above. It changes the lead-sulfate in both plates back to sulphuric acid. In doing so, this once again leaves the negative plate **pure lead Pb 82** and the positive plate lead dioxide. When this process is complete, the cell is again fully charged. Now **Flowerbower** you have learnt something useful, that is of course if you can remember it.

Searl knowledge: 1946-1968: Legal: SEARL NO: 013787346: Legal: SEARLE NO: 013787451.

Designing Demo One – required this kind of information.



1968: Rev. George Nickolson land, here we are modeling the **cabin area** of **STAR SHIP EZEKIEL MK V**. **John Cork holds a small model of the I.G.V.** to show **media reporters** what the craft will appear like. Agree it is not as large as a full football field as **Star Ship Ezekiel MK V**. would be. This study work proved that the cost would be greater than **3 times** that for a **circle cabin**. That was why I changed the **8 sided version** to a **circle version**.

Searl states that this type of cell produces an emf of about 2.1 volts. Normally, either 3 or 6 of the cells are combined to form a battery. **(Strange how that dream of the hopscotch comes into play here again)**. The cells are connected so that the voltages add. Thus, a three cell battery has an emf of about 6.3 volts while a six cell battery has an emf of approximately 12.6. Searl states that your automobile has one or the other of these types of batteries.

Because this type of cell can be recharged it is a secondary cell. Also because the electrolyte is a liquid, the lead-acid cell is a wet cell. It must not be on its side nor turned upside down. Searl warns you: otherwise, the electrolyte will spill out. Searl feels he has explained his knowledge back there in **1947**, the good news is that he is still kicking, where many who have helped him have left the planet for good, sad to say. But I shall remember them.



This photo is the first team created for the flying side. Wilf Bright: on second team.

In the first picture of the team being created to develop different structures to investigate what angle was best for a disc shape craft. The one being studied here was created by a council bridge designer in Reading, Berkshire, who lived in Goring on Thames, Near Reading. In the second photo is a General Electric draftsman of Large power generators, who was excited to be part of the team when he was on holidays, he worked all the hours we could completely free. **NOTE:** all those in the first photo also worked on **Sundays free.** That is why Searl could do the **impossible**, because others proudly help him to achieve that **what he could see and no others could**, thereby, all could see what he could see.

It is time for another programmed review, continuation from the last test:

- 23** A cell or battery is a device which stores energy in chemical form. However, the energy is released in a _____ form.
- 24** Technically, there is a difference between a battery and a cell. A cell is a single unit consisting of two electrodes separated by an electrolyte. A battery is composed of two or more _____ connected together for a specific current and voltage rating.
- 25** The main parts of a cell are its two electrodes and an _____ which separates them. **Amazing how that hopscotch game and the law of the squares fits in here.**
- 26** There are two types of cells. A primary cell is one that cannot be charged. A secondary cell is one that can be _____. **Strange how that game keeps popping up. That proves what I have stated over the years is absolutely true. Unfortunate you are wearing blinkers and cannot see what I state, as you were not involved in that work of R&D, over the years, were you?**

Searl knowledge: 1946-1968: Legal: SEARL NO: 013787346: Legal: SEARLE NO: 013787451.

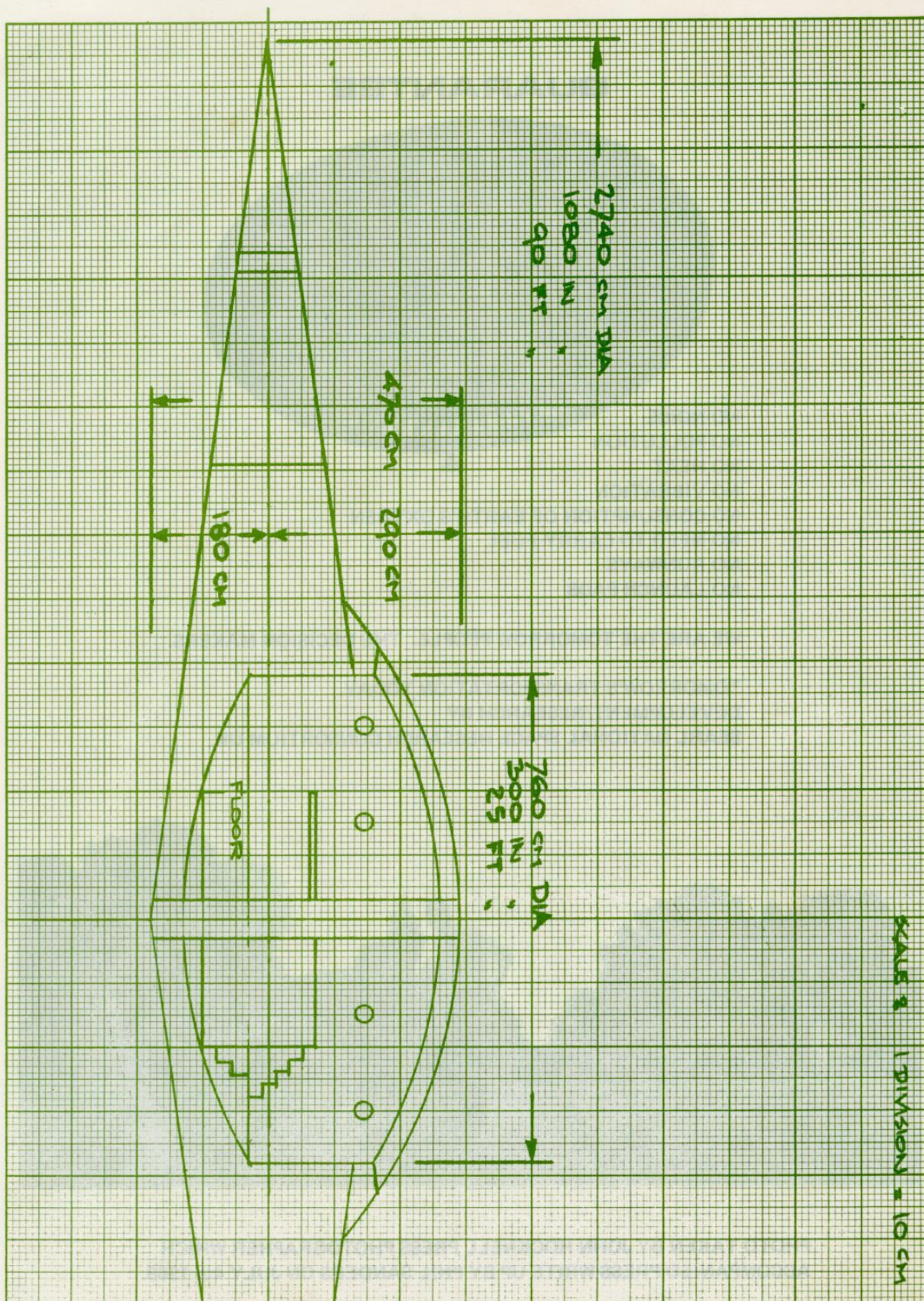
Designing Demo One – required this kind of information.

FIGURE 2

S.P.I. VOL. I. SECTION. 7.

SEP 13 1970
J.P. Roods

SCALE 1 DIVISION = 10 CM



Here is another technical drawing of a model for **one manned I.G.V.** all work lost by **greed** of one member of the team, who took control of the team.

Searl knowledge: 1946-1968: Legal: SEARL NO: 013787346: Legal: SEARLE NO: 013787451.

In closing volume THREE, we like to wish all readers a long and happy life, from the men of the future producing clean technology here in the U.S.A. which is meant to be.



Watch out for our lectures and demonstrations of tomorrow's energy and transportation systems.
America deserves clean water, clean air and good food. We are determined to deliver the goods.
Your help would speed up our efforts. God bless America.